Schema documentation for interface_schema.xsd

august 31, 2016

Table of Contents

Namespace: ""

Schema(s)

Main schema `interface_schema.xsd`

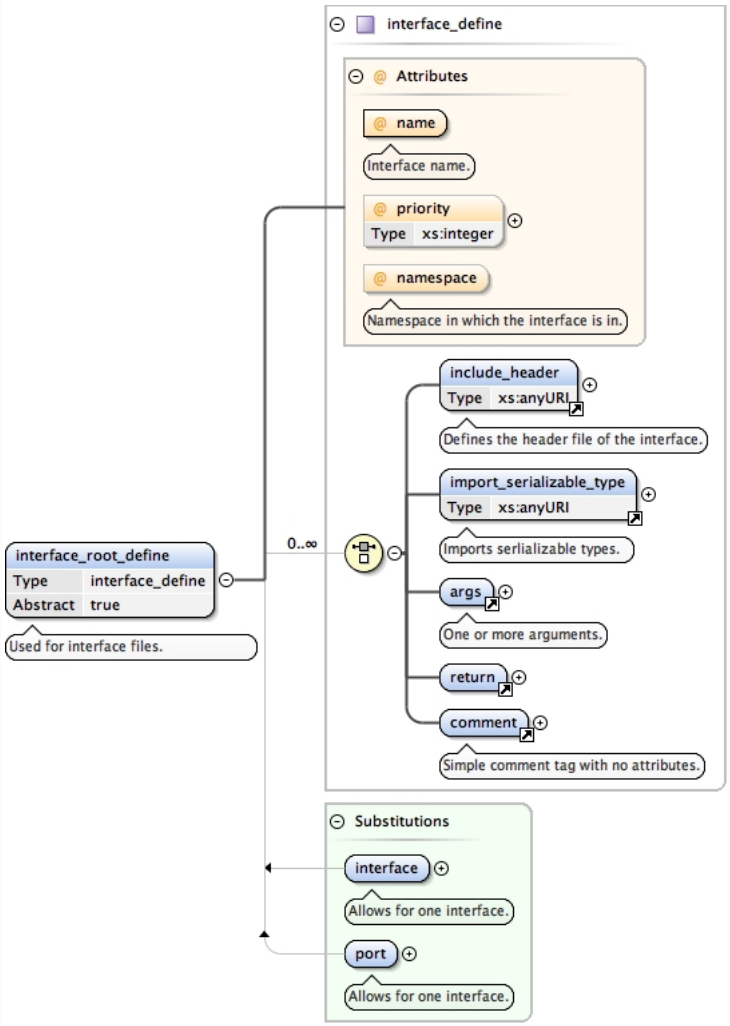
Namespace	No namespace
Properties	attribute form default: `unqualified` element form default: `qualified`

Included schema `common_elements.xsd`

Namespace	No namespace
Properties	attribute form default: `unqualified` element form default: `qualified`

Element(s)

Element `interface_root_define`

Namespace	No namespace
Annotations	`Used for interface files.`
Diagram	
Type	interface_define

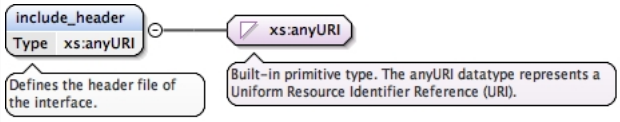
Properties	content: complex abstract: true
Substitution Group	• interface • port
Model	include_header | import_serializable_type | args | return | comment
Children	args, comment, import_serializable_type, include_header, return

Instance	`<interface_root_define name="" namespace="" priority="">`
	`<include_header>{1,1}</include_header>`
	`<import_serializable_type>{1,1}</import_serializable_type>`
	`<args>{1,1}</args>`
	`<return comment="" data_type="" name="" pass_by="" size="" type="">{1,1}</return>`
	`<comment>{1,1}</comment>`
	`</interface_root_define>`

Attributes	**QName** | **Type** | **Use** **name** | | required Interface name. **namespace** | | optional Namespace in which the interface is in. **priority** | xs:integer | optional

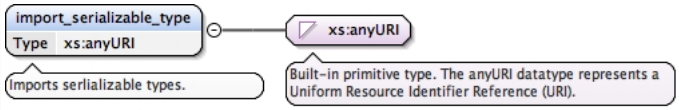
Source	`<xs:element name="interface_root_define" abstract="true" type="interface_define">`
	`<xs:annotation>`
	`<xs:documentation>Used for interface files.</xs:documentation>`
	`</xs:annotation>`
	`</xs:element>`

Element include_header

Namespace	No namespace
Annotations	Defines the header file of the interface.
Diagram	
Type	xs:anyURI
Properties	content: simple
Used by	Complex Type interface_define

Source	`<xs:element name="include_header" type="xs:anyURI">`
	`<xs:annotation>`
	`<xs:documentation>Defines the header file of the interface.</xs:documentation>`
	`</xs:annotation>`
	`</xs:element>`

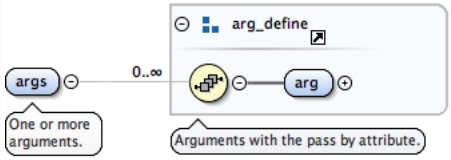
Element import_serializable_type

Namespace	No namespace
Annotations	Imports serlializable types.
Diagram	
Type	xs:anyURI
Properties	content: simple
Used by	Complex Type interface_define

Source	`<xs:element name="import_serializable_type" type="xs:anyURI">`
	`<xs:annotation>`
	`<xs:documentation>Imports serlializable types.</xs:documentation>`
	`</xs:annotation>`

```
</xs:element>
```

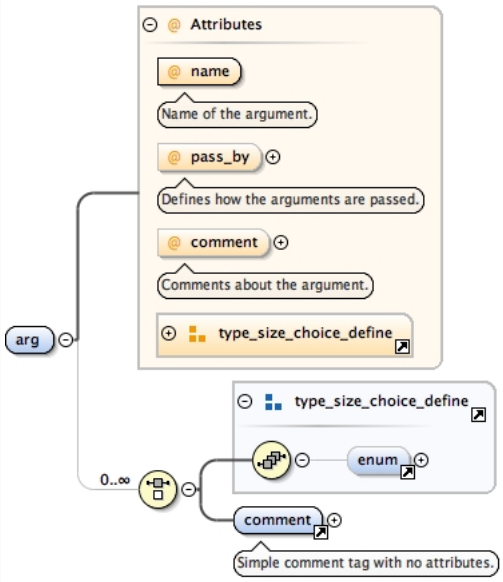
Element `args`

Namespace	No namespace
Annotations	One or more arguments.
Diagram	
Properties	content: complex
Used by	Complex Type interface_define
Model	arg
Children	arg

Instance	`<args>`
	`  <arg comment="" data_type="" name="" pass_by="" size="" type="">{1,1}</arg>`
	`</args>`

Source	`<xs:element name="args">`
	`  <xs:annotation>`
	`  <xs:documentation>One or more arguments.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:complexType>`
	`  <xs:group minOccurs="0" maxOccurs="unbounded" ref="arg_define"/>`
	`  </xs:complexType>`
	`</xs:element>`

Element `arg_define / arg`

Namespace	No namespace
Diagram	
Properties	content: complex
Model	(enum{0,1}) | comment
Children	comment, enum

Instance	`<arg comment="" data_type="" name="" pass_by="" size="" type="">`
	`  <enum name="">{0,1}</enum>`
	`  <comment>{1,1}</comment>`
	`</arg>`

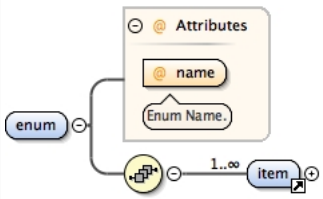
Attributes	**QName** / **Type** / **Use** **comment** / xs:string / optional

	QName	Type	Use	
		Comments about the argument.		
	data_type	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional	
	name		required	
		Name of the argument.		
	pass_by	pass_by_define	optional	
		Defines how the arguments are passed.		
	size	xs:nonNegativeInteger	optional	
		The size of the argument.		
	type	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional	

Source

```
<xs:element name="arg">
  <xs:complexType>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:group ref="type_size_choice_define"/>
      <xs:element ref="comment"/>
    </xs:choice>
    <xs:attribute name="name" use="required">
      <xs:annotation>
        <xs:documentation>Name of the argument.</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="pass_by" type="pass_by_define">
      <xs:annotation>
        <xs:documentation>Defines how the arguments are passed.</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="comment" type="xs:string">
      <xs:annotation>
        <xs:documentation>Comments about the argument.</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attributeGroup ref="type_size_choice_define"/>
  </xs:complexType>
</xs:element>
```

Element enum

Namespace	No namespace
Diagram	
Properties	content: complex
Used by	Element Group type_size_choice_define
Model	item+
Children	item

Instance	`<enum name="">`
	`  <item comment="" name="" value="">{1,unbounded}</item>`
	`</enum>`

Attributes

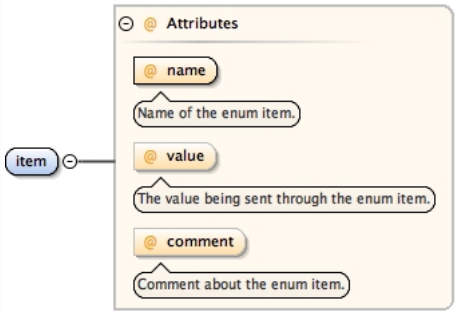
QName	Type	Use	
name		required	
	Enum Name.		

Source

```
<xs:element name="enum">
  <xs:complexType>
    <xs:sequence>
      <xs:element maxOccurs="unbounded" ref="item"/>
    </xs:sequence>
    <xs:attribute name="name" use="required">
```

```
      <xs:annotation>
        <xs:documentation>Enum Name.</xs:documentation>
      </xs:annotation>
    </xs:attribute>
  </xs:complexType>
</xs:element>
```

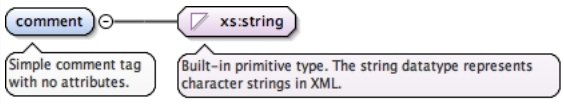
Element `item`

Namespace	No namespace
Diagram	
Properties	content: `complex`
Used by	Element: enum

Attributes	**QName** / **Type** / **Use**
	comment / optional
	`Comment about the enum item.`
	name / required
	`Name of the enum item.`
	value / optional
	`The value being sent through the enum item.`

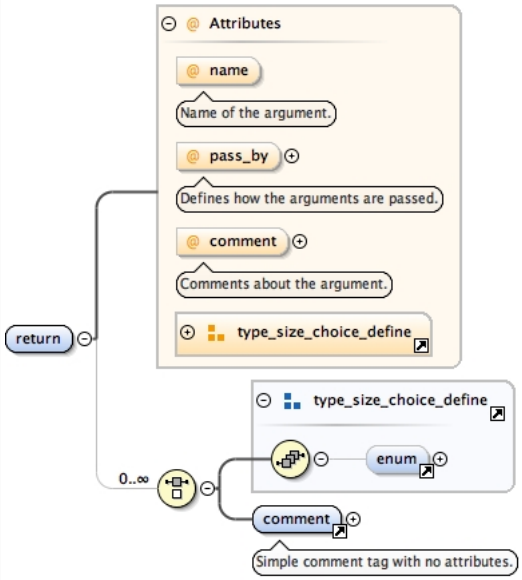
Source	`<xs:element name="item">`
	`  <xs:complexType>`
	`    <xs:attribute name="name" use="required">`
	`      <xs:annotation>`
	`        <xs:documentation>Name of the enum item.</xs:documentation>`
	`      </xs:annotation>`
	`    </xs:attribute>`
	`    <xs:attribute name="value">`
	`      <xs:annotation>`
	`        <xs:documentation>The value being sent through the enum item.</xs:documentation>`
	`      </xs:annotation>`
	`    </xs:attribute>`
	`    <xs:attribute name="comment">`
	`      <xs:annotation>`
	`        <xs:documentation>Comment about the enum item.</xs:documentation>`
	`      </xs:annotation>`
	`    </xs:attribute>`
	`  </xs:complexType>`
	`</xs:element>`

Element `comment`

Namespace	No namespace
Annotations	`Simple comment tag with no attributes.`
Diagram	
Type	xs:string
Properties	content: `simple`
Used by	Elements: arg_define/arg, external_arg_define/arg, return Complex Type: interface_define

Source	<xs:element name="comment" type="xs:string"> <xs:annotation> <xs:documentation>Simple comment tag with no attributes.</xs:documentation> </xs:annotation> </xs:element>

Element `return`

Namespace	No namespace
Diagram	
Properties	content: complex
Used by	Complex Type interface_define
Model	(enum{0,1}) | comment
Children	comment, enum
Instance	<return comment="" data_type="" name="" pass_by="" size="" type=""> <enum name="">{0,1}</enum> <comment>{1,1}</comment> </return>

Attributes

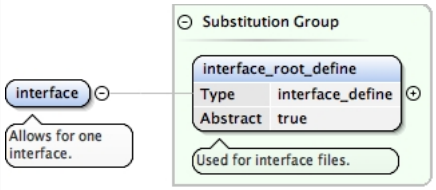
QName	Type	Use	
comment	xs:string	optional	
	Comments about the argument.		
data_type	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional	
name		optional	
	Name of the argument.		
pass_by	pass_by_define	optional	
	Defines how the arguments are passed.		
size	xs:nonNegativeInteger	optional	
	The size of the argument.		
type	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional	

Source

```
<xs:element name="return">
  <xs:complexType>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:group ref="type_size_choice_define"/>
      <xs:element ref="comment"/>
    </xs:choice>
    <xs:attribute name="name">
      <xs:annotation>
        <xs:documentation>Name of the argument.</xs:documentation>
      </xs:annotation>
```

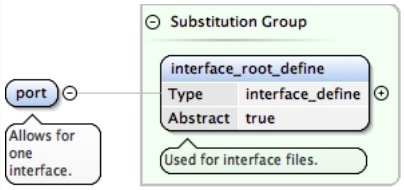
```
    </xs:attribute>
    <xs:attribute name="pass_by" type="pass_by_define">
      <xs:annotation>
        <xs:documentation>Defines how the arguments are passed.</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="comment" type="xs:string">
      <xs:annotation>
        <xs:documentation>Comments about the argument.</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attributeGroup ref="type_size_choice_define"/>
  </xs:complexType>
</xs:element>
```

Element `interface`

Namespace	No namespace
Annotations	`Allows for one interface.`
Diagram	
Substitution Group Affiliation	• interface_root_define

Source	`<xs:element name="interface" substitutionGroup="interface_root_define">`
	`  <xs:annotation>`
	`  <xs:documentation>Allows for one interface.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

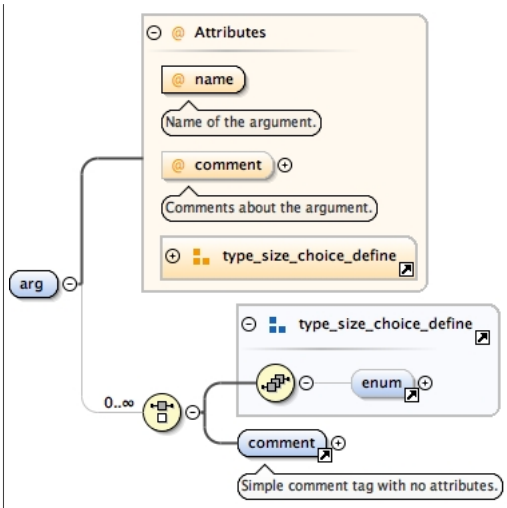
Element `port`

Namespace	No namespace
Annotations	`Allows for one interface.`
Diagram	
Substitution Group Affiliation	• interface_root_define

Source	`<xs:element name="port" substitutionGroup="interface_root_define">`
	`  <xs:annotation>`
	`  <xs:documentation>Allows for one interface.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:element>`

Element `external_arg_define / arg`

Namespace	No namespace

Diagram	
Properties	content: complex
Model	(enum{0,1}) | comment
Children	comment, enum

Instance	`<arg comment="" data_type="" name="" size="" type="">`
	`  <enum name="">{0,1}</enum>`
	`  <comment>{1,1}</comment>`
	`</arg>`

Attributes

QName	Type	Use	
comment	xs:string	optional	
	Comments about the argument.		
data_type	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional	
name		required	
	Name of the argument.		
size	xs:nonNegativeInteger	optional	
	The size of the argument.		
type	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional	

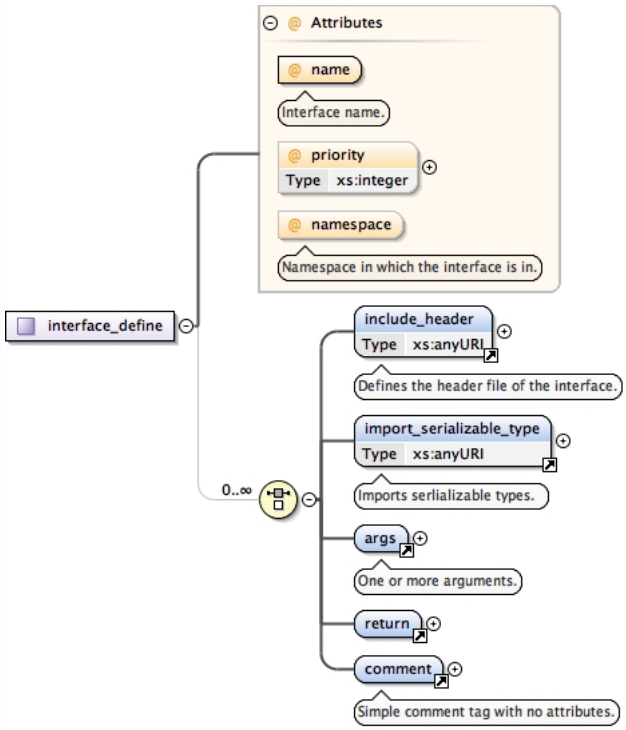
Source

```
<xs:element name="arg">
  <xs:complexType>
    <xs:choice minOccurs="0" maxOccurs="unbounded">
      <xs:group ref="type_size_choice_define"/>
      <xs:element ref="comment"/>
    </xs:choice>
    <xs:attribute name="name" use="required">
      <xs:annotation>
        <xs:documentation>Name of the argument.</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attribute name="comment" type="xs:string">
      <xs:annotation>
        <xs:documentation>Comments about the argument.</xs:documentation>
      </xs:annotation>
    </xs:attribute>
    <xs:attributeGroup ref="type_size_choice_define"/>
  </xs:complexType>
</xs:element>
```

Complex Type(s)

Complex Type `interface_define`

Namespace	No namespace

Diagram	
Used by	Element interface_root_define
Model	include_header | import_serializable_type | args | return | comment
Children	args, comment, import_serializable_type, include_header, return

Attributes

QName	Type	Use	
name		required	
	`Interface name.`		
namespace		optional	
	`Namespace in which the interface is in.`		
priority	xs:integer	optional	

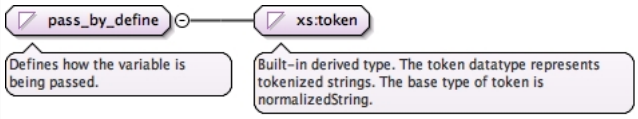
Source

```
<xs:complexType name="interface_define">
  <xs:choice minOccurs="0" maxOccurs="unbounded">
    <xs:element ref="include_header"/>
    <xs:element ref="import_serializable_type"/>
    <xs:element ref="args"/>
    <xs:element ref="return"/>
    <xs:element ref="comment"/>
  </xs:choice>
  <xs:attribute name="name" use="required">
    <xs:annotation>
      <xs:documentation>Interface name.</xs:documentation>
    </xs:annotation>
  </xs:attribute>
  <xs:attribute name="priority" type="xs:integer"/>
  <xs:attribute name="namespace">
    <xs:annotation>
      <xs:documentation>Namespace in which the interface is in.</xs:documentation>
    </xs:annotation>
  </xs:attribute>
</xs:complexType>
```

Simple Type(s)

Simple Type `pass_by_define`

Namespace	No namespace
Annotations	`Defines how the variable is being passed.`

Diagram	
Type	restriction of xs:token
Facets	enumeration `reference` enumeration `value` enumeration `pointer`
Used by	Attributes arg_define/arg/@pass_by, return/@pass_by

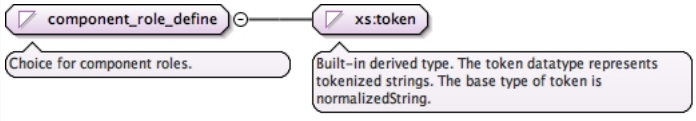
Source	`<xs:simpleType name="pass_by_define">`
	`  <xs:annotation>`
	`  <xs:documentation>Defines how the variable is being passed.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:token">`
	`  <xs:enumeration value="reference"/>`
	`  <xs:enumeration value="value"/>`
	`  <xs:enumeration value="pointer"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

Simple Type `full_items_define`

Namespace	No namespace
Annotations	`Valid values for the full tag.`
Diagram	
Type	restriction of xs:token
Facets	enumeration `drop` enumeration `assert` enumeration `block`

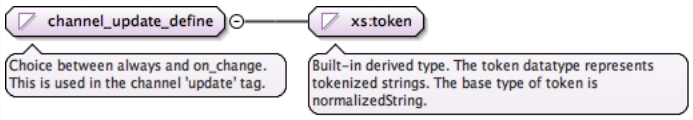
Source	`<xs:simpleType name="full_items_define">`
	`  <xs:annotation>`
	`  <xs:documentation>Valid values for the full tag.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:token">`
	`  <xs:enumeration value="drop"/>`
	`  <xs:enumeration value="assert"/>`
	`  <xs:enumeration value="block"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

Simple Type `component_role_define`

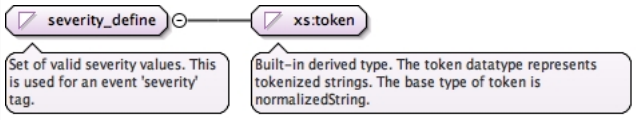
Namespace	No namespace
Annotations	`Choice for component roles.`
Diagram	
Type	restriction of xs:token
Facets	enumeration `LogEvent` enumeration `LogTextEvent` enumeration `TimeGet` enumeration `ParamSet` enumeration `ParamGet` enumeration `Telemetry` enumeration `CmdRegistration`

	enumeration	Cmd
	enumeration	CmdResponse
Source	<xs:simpleType name="component_role_define"> <xs:annotation> <xs:documentation>Choice for component roles.</xs:documentation> </xs:annotation> <xs:restriction base="xs:token"> <xs:enumeration value="LogEvent"/> <xs:enumeration value="LogTextEvent"/> <xs:enumeration value="TimeGet"/> <xs:enumeration value="ParamSet"/> <xs:enumeration value="ParamGet"/> <xs:enumeration value="Telemetry"/> <xs:enumeration value="CmdRegistration"/> <xs:enumeration value="Cmd"/> <xs:enumeration value="CmdResponse"/> </xs:restriction> </xs:simpleType>	

Simple Type channel_update_define

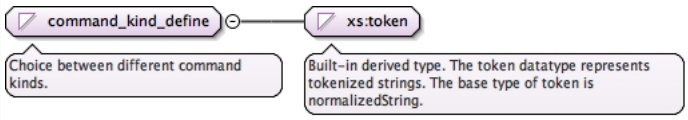
Namespace	No namespace
Annotations	Choice between always and on_change. This is used in the channel 'update' tag.
Diagram	
Type	restriction of xs:token
Facets	enumeration always enumeration on_change
Source	<xs:simpleType name="channel_update_define"> <xs:annotation> <xs:documentation>Choice between always and on_change. This is used in the channel 'update' tag.</xs:documentation> </xs:annotation> <xs:restriction base="xs:token"> <xs:enumeration value="always"/> <xs:enumeration value="on_change"/> </xs:restriction> </xs:simpleType>

Simple Type severity_define

Namespace	No namespace
Annotations	Set of valid severity values. This is used for an event 'severity' tag.
Diagram	
Type	restriction of xs:token
Facets	enumeration COMMAND enumeration ACTIVITY_LO enumeration ACTIVITY_HI enumeration WARNING_LO enumeration WARNING_HI enumeration DIAGNOSTIC enumeration FATAL
Source	<xs:simpleType name="severity_define"> <xs:annotation> <xs:documentation>Set of valid severity values. This is used for an event 'severity' tag.</xs:documentation> </xs:annotation> <xs:restriction base="xs:token"> <xs:enumeration value="COMMAND"/>

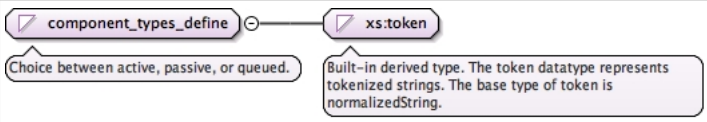
```
    <xs:enumeration value="ACTIVITY_LO"/>
    <xs:enumeration value="ACTIVITY_HI"/>
    <xs:enumeration value="WARNING_LO"/>
    <xs:enumeration value="WARNING_HI"/>
    <xs:enumeration value="DIAGNOSTIC"/>
    <xs:enumeration value="FATAL"/>
  </xs:restriction>
</xs:simpleType>
```

Simple Type `command_kind_define`

Namespace	No namespace
Annotations	`Choice between different command kinds.`
Diagram	
Type	restriction of xs:token
Facets	enumeration `async` enumeration `sync` enumeration `guarded`

Source	`<xs:simpleType name="command_kind_define">`
	`  <xs:annotation>`
	`  <xs:documentation>Choice between different command kinds.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:token">`
	`  <xs:enumeration value="async"/>`
	`  <xs:enumeration value="sync"/>`
	`  <xs:enumeration value="guarded"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

Simple Type `component_types_define`

Namespace	No namespace
Annotations	`Choice between active, passive, or queued.`
Diagram	
Type	restriction of xs:token
Facets	enumeration `active` enumeration `passive` enumeration `queued`

Source	`<xs:simpleType name="component_types_define">`
	`  <xs:annotation>`
	`  <xs:documentation>Choice between active, passive, or queued.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:restriction base="xs:token">`
	`  <xs:enumeration value="active"/>`
	`  <xs:enumeration value="passive"/>`
	`  <xs:enumeration value="queued"/>`
	`  </xs:restriction>`
	`</xs:simpleType>`

Simple Type `port_types_define`

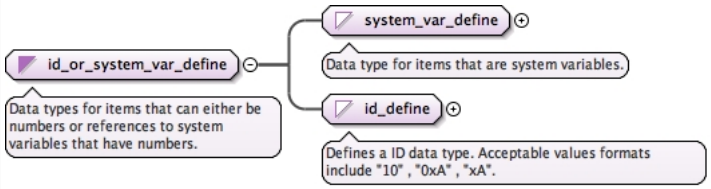
Namespace	No namespace
Annotations	`Choice between different port types.`
Diagram	
Type	restriction of xs:token

Facets	enumeration	input
	enumeration	sync_input
	enumeration	guarded_input
	enumeration	async_input
	enumeration	model_input
	enumeration	output

Source

```
<xs:simpleType name="port_types_define">
  <xs:annotation>
    <xs:documentation>Choice between different port types.</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:token">
    <xs:enumeration value="input"/>
    <xs:enumeration value="sync_input"/>
    <xs:enumeration value="guarded_input"/>
    <xs:enumeration value="async_input"/>
    <xs:enumeration value="model_input"/>
    <xs:enumeration value="output"/>
  </xs:restriction>
</xs:simpleType>
```

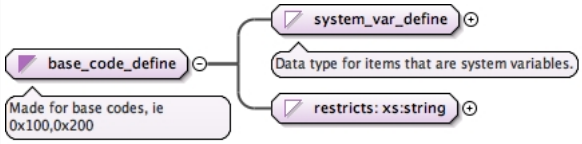
Simple Type id_or_system_var_define

Namespace	No namespace
Annotations	Data types for items that can either be numbers or references to system variables that have numbers.
Diagram	
Type	union of(system_var_define, id_define)

Source

```
<xs:simpleType name="id_or_system_var_define">
  <xs:annotation>
    <xs:documentation>Data types for items that can either be numbers or references to system
 variables that have numbers.</xs:documentation>
  </xs:annotation>
  <xs:union memberTypes="system_var_define id_define"/>
</xs:simpleType>
```

Simple Type base_code_define

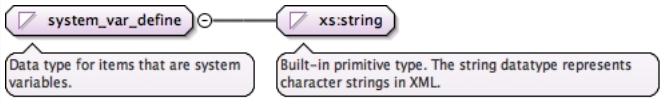
Namespace	No namespace
Annotations	Made for base codes, ie 0x100,0x200
Diagram	
Type	union of(system_var_define, restriction of xs:string)

Source

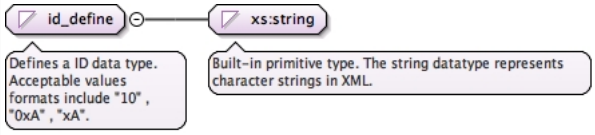
```
<xs:simpleType name="base_code_define">
  <xs:annotation>
    <xs:documentation>Made for base codes, ie 0x100,0x200</xs:documentation>
  </xs:annotation>
  <xs:union memberTypes="system_var_define">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="(((0?x\d+)|\d+)(,?))+"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:union>
</xs:simpleType>
```

Simple Type system_var_define

Namespace	No namespace
Annotations	Data type for items that are system variables.

Diagram	
Type	restriction of xs:string
Facets	pattern $[\w|_|\-]+
Source	<xs:simpleType name="system_var_define"> <xs:annotation> <xs:documentation>Data type for items that are system variables.</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="$[\w|_|\-]+"/> </xs:restriction> </xs:simpleType>

Simple Type `id_define`

Namespace	No namespace
Annotations	Defines a ID data type. Acceptable values formats include "10" , "0xA" , "xA".
Diagram	
Type	restriction of xs:string
Facets	pattern ((0?x\d+)|\d+)
Source	<xs:simpleType name="id_define"> <xs:annotation> <xs:documentation>Defines a ID data type. Acceptable values formats include "10" , "0xA" , "xA".</xs:documentation> </xs:annotation> <xs:restriction base="xs:string"> <xs:pattern value="((0?x\d+)|\d+)"/> </xs:restriction> </xs:simpleType>

Attribute(s)

Attribute `item / @name`

Namespace	No namespace
Annotations	Name of the enum item.
Properties	use: required
Used by	Element item
Source	<xs:attribute name="name" use="required"> <xs:annotation> <xs:documentation>Name of the enum item.</xs:documentation> </xs:annotation> </xs:attribute>

Attribute `item / @value`

Namespace	No namespace
Annotations	The value being sent through the enum item.
Used by	Element item
Source	<xs:attribute name="value"> <xs:annotation> <xs:documentation>The value being sent through the enum item.</xs:documentation> </xs:annotation> </xs:attribute>

Attribute `item / @comment`

Namespace	No namespace

Annotations	Comment about the enum item.
Used by	Element item

Source	`<xs:attribute name="comment">`
	`  <xs:annotation>`
	`  <xs:documentation>Comment about the enum item.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute enum / @name

Namespace	No namespace
Annotations	Enum Name.
Properties	use: required
Used by	Element enum

Source	`<xs:attribute name="name" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation>Enum Name.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute arg_define / arg / @name

Namespace	No namespace
Annotations	Name of the argument.
Properties	use: required
Used by	Element arg_define/arg

Source	`<xs:attribute name="name" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation>Name of the argument.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute arg_define / arg / @pass_by

Namespace	No namespace
Annotations	Defines how the arguments are passed.
Type	pass_by_define
Properties	content: simple
Facets	enumeration reference enumeration value enumeration pointer
Used by	Element arg_define/arg

Source	`<xs:attribute name="pass_by" type="pass_by_define">`
	`  <xs:annotation>`
	`  <xs:documentation>Defines how the arguments are passed.</xs:documentation>`
	`  </xs:annotation>`
	`</xs:attribute>`

Attribute arg_define / arg / @comment

Namespace	No namespace
Annotations	Comments about the argument.
Type	xs:string
Properties	content: simple
Used by	Element arg_define/arg

Source	`<xs:attribute name="comment" type="xs:string">`
	`  <xs:annotation>`
	`  <xs:documentation>Comments about the argument.</xs:documentation>`
	`  </xs:annotation>`

```
</xs:attribute>
```

Attribute `type_size_choice_define / @data_type`

Namespace	No namespace
Type	union of(xs:string, restriction of xs:token, restriction of xs:token)
Properties	content: simple
Used by	Attribute Group type_size_choice_define
Source	

```
<xs:attribute name="data_type">
  <xs:simpleType>
    <xs:union memberTypes="xs:string">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="string"/>
        </xs:restriction>
      </xs:simpleType>
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="ENUM"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
```

Attribute `type_size_choice_define / @type`

Namespace	No namespace
Type	union of(xs:string, restriction of xs:token, restriction of xs:token)
Properties	content: simple
Used by	Attribute Group type_size_choice_define
Source	

```
<xs:attribute name="type">
  <xs:simpleType>
    <xs:union memberTypes="xs:string">
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="string"/>
        </xs:restriction>
      </xs:simpleType>
      <xs:simpleType>
        <xs:restriction base="xs:token">
          <xs:enumeration value="ENUM"/>
        </xs:restriction>
      </xs:simpleType>
    </xs:union>
  </xs:simpleType>
</xs:attribute>
```

Attribute `type_size_choice_define / @size`

Namespace	No namespace
Annotations	The size of the argument.
Type	xs:nonNegativeInteger
Properties	content: simple
Used by	Attribute Group type_size_choice_define
Source	

```
<xs:attribute name="size" type="xs:nonNegativeInteger">
  <xs:annotation>
    <xs:documentation>The size of the argument.</xs:documentation>
  </xs:annotation>
</xs:attribute>
```

Attribute `return / @name`

Namespace	No namespace
Annotations	Name of the argument.
Used by	Element return

Source	<xs:attribute name="name"> <xs:annotation> <xs:documentation>Name of the argument.</xs:documentation> </xs:annotation> </xs:attribute>

Attribute `return / @pass_by`

Namespace	No namespace	
Annotations	Defines how the arguments are passed.	
Type	pass_by_define	
Properties	content:	simple
Facets	enumeration	reference
	enumeration	value
	enumeration	pointer
Used by	Element	return
Source	<xs:attribute name="pass_by" type="pass_by_define"> <xs:annotation> <xs:documentation>Defines how the arguments are passed.</xs:documentation> </xs:annotation> </xs:attribute>	

Attribute `return / @comment`

Namespace	No namespace	
Annotations	Comments about the argument.	
Type	xs:string	
Properties	content:	simple
Used by	Element	return
Source	<xs:attribute name="comment" type="xs:string"> <xs:annotation> <xs:documentation>Comments about the argument.</xs:documentation> </xs:annotation> </xs:attribute>	

Attribute `interface_define / @name`

Namespace	No namespace	
Annotations	Interface name.	
Properties	use:	required
Used by	Complex Type	interface_define
Source	<xs:attribute name="name" use="required"> <xs:annotation> <xs:documentation>Interface name.</xs:documentation> </xs:annotation> </xs:attribute>	

Attribute `interface_define / @priority`

Namespace	No namespace	
Type	xs:integer	
Properties	content:	simple
Used by	Complex Type	interface_define
Source	<xs:attribute name="priority" type="xs:integer"/>	

Attribute `interface_define / @namespace`

Namespace	No namespace
Annotations	Namespace in which the interface is in.

Used by	Complex Type interface_define
Source	<xs:attribute name="namespace"> <xs:annotation> <xs:documentation>Namespace in which the interface is in.</xs:documentation> </xs:annotation> </xs:attribute>

Attribute external_arg_define / arg / @name

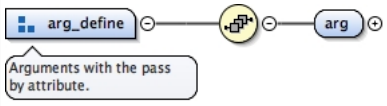
Namespace	No namespace
Annotations	Name of the argument.
Properties	use: required
Used by	Element external_arg_define/arg
Source	<xs:attribute name="name" use="required"> <xs:annotation> <xs:documentation>Name of the argument.</xs:documentation> </xs:annotation> </xs:attribute>

Attribute external_arg_define / arg / @comment

Namespace	No namespace
Annotations	Comments about the argument.
Type	xs:string
Properties	content: simple
Used by	Element external_arg_define/arg
Source	<xs:attribute name="comment" type="xs:string"> <xs:annotation> <xs:documentation>Comments about the argument.</xs:documentation> </xs:annotation> </xs:attribute>

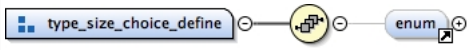
Element Group(s)

Element Group arg_define

Namespace	No namespace
Annotations	Arguments with the pass by attribute.
Diagram	
Used by	Element args
Model	arg
Children	arg
Source	<xs:group name="arg_define"> <xs:annotation> <xs:documentation>Arguments with the pass by attribute.</xs:documentation> </xs:annotation> <xs:sequence> <xs:element name="arg"> <xs:complexType> <xs:choice minOccurs="0" maxOccurs="unbounded"> <xs:group ref="type_size_choice_define"/> <xs:element ref="comment"/> </xs:choice> <xs:attribute name="name" use="required"> <xs:annotation> <xs:documentation>Name of the argument.</xs:documentation> </xs:annotation> </xs:attribute> <xs:attribute name="pass_by" type="pass_by_define"> <xs:annotation> <xs:documentation>Defines how the arguments are passed.</xs:documentation>

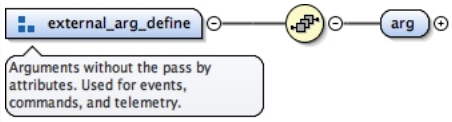
```
          </xs:annotation>
        </xs:attribute>
        <xs:attribute name="comment" type="xs:string">
          <xs:annotation>
            <xs:documentation>Comments about the argument.</xs:documentation>
          </xs:annotation>
        </xs:attribute>
        <xs:attributeGroup ref="type_size_choice_define"/>
      </xs:complexType>
    </xs:element>
  </xs:sequence>
</xs:group>
```

Element Group `type_size_choice_define`

Namespace	No namespace
Diagram	
Used by	Elements arg_define/arg, external_arg_define/arg, return
Model	enum{0,1}
Children	enum

Source	`<xs:group name="type_size_choice_define">`
	`  <xs:sequence>`
	`  <xs:element minOccurs="0" ref="enum"/>`
	`  </xs:sequence>`
	`</xs:group>`

Element Group `external_arg_define`

Namespace	No namespace
Annotations	Arguments without the pass by attributes. Used for events, commands, and telemetry.
Diagram	
Model	arg
Children	arg

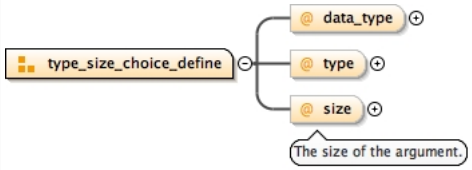
Source	`<xs:group name="external_arg_define">`
	`  <xs:annotation>`
	`  <xs:documentation>Arguments without the pass by attributes. Used for events, commands, and telemetry.</xs:documentation>`
	`  </xs:annotation>`
	`  <xs:sequence>`
	`  <xs:element name="arg">`
	`  <xs:complexType>`
	`  <xs:choice minOccurs="0" maxOccurs="unbounded">`
	`  <xs:group ref="type_size_choice_define"/>`
	`  <xs:element ref="comment"/>`
	`  </xs:choice>`
	`  <xs:attribute name="name" use="required">`
	`  <xs:annotation>`
	`  <xs:documentation>Name of the argument.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:attribute>`
	`  <xs:attribute name="comment" type="xs:string">`
	`  <xs:annotation>`
	`  <xs:documentation>Comments about the argument.</xs:documentation>`
	`  </xs:annotation>`
	`  </xs:attribute>`
	`  <xs:attributeGroup ref="type_size_choice_define"/>`
	`  </xs:complexType>`
	`  </xs:element>`
	`  </xs:sequence>`
	`</xs:group>`

Attribute Group(s)

Attribute Group `type_size_choice_define`

Namespace	No namespace

Diagram



Used by

Elements arg_define/arg, external_arg_define/arg, return

Attributes

QName	Type	Use	
data_type	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional	
size	xs:nonNegativeInteger	optional	
	`The size of the argument.`		
type	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional	

Source

```
<xs:attributeGroup name="type_size_choice_define">
  <xs:attribute name="data_type">
    <xs:simpleType>
      <xs:union memberTypes="xs:string">
        <xs:simpleType>
          <xs:restriction base="xs:token">
            <xs:enumeration value="string"/>
          </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
          <xs:restriction base="xs:token">
            <xs:enumeration value="ENUM"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:union>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="type">
    <xs:simpleType>
      <xs:union memberTypes="xs:string">
        <xs:simpleType>
          <xs:restriction base="xs:token">
            <xs:enumeration value="string"/>
          </xs:restriction>
        </xs:simpleType>
        <xs:simpleType>
          <xs:restriction base="xs:token">
            <xs:enumeration value="ENUM"/>
          </xs:restriction>
        </xs:simpleType>
      </xs:union>
    </xs:simpleType>
  </xs:attribute>
  <xs:attribute name="size" type="xs:nonNegativeInteger">
    <xs:annotation>
      <xs:documentation>The size of the argument.</xs:documentation>
    </xs:annotation>
  </xs:attribute>
</xs:attributeGroup>
```