

# Schema documentation for interface\_schema.xsd

august 31, 2016

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**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

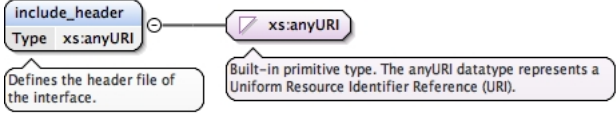
**Element(s)**

**Element interface\_root\_define**

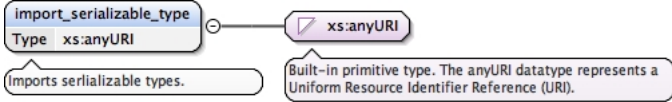
Namespace	No namespace
Annotations	Used for interface files.
Diagram	<pre> classDiagram     class interface_root_define {         Type interface_define         Abstract true         Note for interface files.     }     class interface_define {         name         priority Type xs:integer         namespace         include_header Type xs:anyURI         import_serializable_type Type xs:anyURI         args         return         comment     }     interface_root_define "0..∞" --&gt; "1" interface_define     interface_define --&gt; "1" include_header     interface_define --&gt; "1" import_serializable_type     interface_define --&gt; "1" args     interface_define --&gt; "1" return     interface_define --&gt; "1" comment     interface_define --&gt; "1" interface     interface_define --&gt; "1" port   </pre>
Type	interface_define

Properties	content: complex			
	abstract: true			
Substitution Group	<ul style="list-style-type: none"><li>interface</li><li>port</li></ul>			
Model	include_header   import_serializable_type   args   return   comment			
Children	args, comment, import_serializable_type, include_header, return			
Instance	<pre>&lt;interface_root_define name="" namespace="" priority=""&gt;   &lt;include_header&gt;{1,1}&lt;/include_header&gt;   &lt;import_serializable_type&gt;{1,1}&lt;/import_serializable_type&gt;   &lt;args&gt;{1,1}&lt;/args&gt;   &lt;return comment="" data_type="" name="" pass_by="" size="" type=""&gt;{1,1}&lt;/return&gt;   &lt;comment&gt;{1,1}&lt;/comment&gt; &lt;/interface_root_define&gt;</pre>			
Attributes	QName	Type	Use	
	name		required	
		Interface name.		
	namespace		optional	
		Namespace in which the interface is in.		
	priority	xs:integer	optional	
Source	<pre>&lt;xs:element name="interface_root_define" abstract="true" type="interface_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Used for interface files.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>			

## 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	<pre>&lt;xs:element name="include_header" type="xs:anyURI"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Defines the header file of the interface.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

## Element import\_serializable\_type

Namespace	No namespace
Annotations	Imports serializable types.
Diagram	
Type	xs:anyURI
Properties	content: simple
Used by	Complex Type interface_define
Source	<pre>&lt;xs:element name="import_serializable_type" type="xs:anyURI"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Imports serializable types.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt;</pre>

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

## Element args

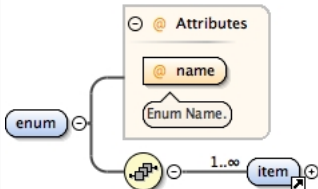
Namespace	No namespace
Annotations	One or more arguments.
Diagram	
Properties	content: complex
Used by	Complex Type interface_define
Model	arg
Children	arg
Instance	<pre>&lt;args&gt;   &lt;arg comment="" data_type="" name="" pass_by="" size="" type=""&gt;{1,1}&lt;/arg&gt; &lt;/args&gt;</pre>
Source	<pre>&lt;xs:element name="args"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;One or more arguments.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:group minOccurs="0" maxOccurs="unbounded" ref="arg_define"/&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

## Element arg\_define / arg

Namespace	No namespace										
Diagram											
Properties	content:	complex									
Model	(enum{0,1})   comment										
Children	comment, enum										
Instance	<pre>&lt;arg comment="" data_type="" name="" pass_by="" size="" type=""&gt;   &lt;enum name=""&gt;{0,1}&lt;/enum&gt;   &lt;comment&gt;{1,1}&lt;/comment&gt; &lt;/arg&gt;</pre>										
Attributes	<table><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr><tr><td>comment</td><td>xs:string</td><td>optional</td><td></td></tr></table>	QName	Type	Use		comment	xs:string	optional			
QName	Type	Use									
comment	xs:string	optional									

QName	Type	Use	
	Comments about the argument.		
<b>data_type</b>	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional	
<b>name</b>		required	
	Name of the argument.		
<b>pass_by</b>	pass_by_define	optional	
	Defines how the arguments are passed.		
<b>size</b>	xs:nonNegativeInteger	optional	
	The size of the argument.		
<b>type</b>	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional	
Source	<pre> &lt;xs:element name="arg"&gt;   &lt;xs:complexType&gt;     &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;       &lt;xs:group ref="type_size_choice_define"/&gt;       &lt;xs:element ref="comment"/&gt;     &lt;/xs:choice&gt;     &lt;xs:attribute name="name" use="required"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Name of the argument.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attribute name="pass_by" type="pass_by_define"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Defines how the arguments are passed.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attribute name="comment" type="xs:string"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Comments about the argument.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attributeGroup ref="type_size_choice_define"/&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>		

## Element enum

Namespace	No namespace		
Diagram			
Properties	content:	complex	
Used by	Element Group	type_size_choice_define	
Model	item+		
Children	item		
Instance	<pre>&lt;enum name=" "&gt;   &lt;item comment="" name="" value=""&gt;{1,unbounded}&lt;/item&gt; &lt;/enum&gt;</pre>		
Attributes	QName	Type	Use
	name		required
		Enum Name.	
Source	<pre>&lt;xs:element name="enum"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element maxOccurs="unbounded" ref="item"/&gt;     &lt;/xs:sequence&gt;     &lt;xs:attribute name="name" use="required"&gt;</pre>		

```

<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	<b>QName</b>	<b>Type</b>	<b>Use</b>	
	<b>comment</b>		optional	
		Comment about the enum item.		
	<b>name</b>		required	
		Name of the enum item.		
	<b>value</b>		optional	
		The value being sent through the enum item.		
Source	<pre>&lt;xs:element name="item"&gt;   &lt;xs:complexType&gt;     &lt;xs:attribute name="name" use="required"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Name of the enum item.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attribute name="value"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;The value being sent through the enum item.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attribute name="comment"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Comment about the enum item.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>			

## 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	<pre> &lt;xs:element name="comment" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Simple comment tag with no attributes.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>
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## Element return

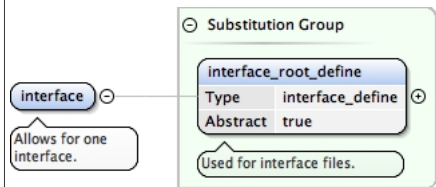
Namespace	No namespace																																														
Diagram																																															
Properties	content:	complex																																													
Used by	Complex Type	interface_define																																													
Model	(enum{0,1})   comment																																														
Children	comment, enum																																														
Instance	<pre>&lt;return comment="" data_type="" name="" pass_by="" size="" type=""&gt;   &lt;enum name=""&gt;{0,1}&lt;/enum&gt;   &lt;comment&gt;{1,1}&lt;/comment&gt; &lt;/return&gt;</pre>																																														
Attributes	<table><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr><tr><td>comment</td><td>xs:string</td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">Comments about the argument.</td></tr><tr><td>data_type</td><td>union of(xs:string, restriction of xs:token, restriction of xs:token)</td><td>optional</td><td></td></tr><tr><td>name</td><td></td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">Name of the argument.</td></tr><tr><td>pass_by</td><td>pass_by_define</td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">Defines how the arguments are passed.</td></tr><tr><td>size</td><td>xs:nonNegativeInteger</td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">The size of the argument.</td></tr><tr><td>type</td><td>union of(xs:string, restriction of xs:token, restriction of xs:token)</td><td>optional</td><td></td></tr></table>	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			
QName	Type	Use																																													
comment	xs:string	optional																																													
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data_type	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional																																													
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	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	<pre>&lt;xs:element name="return"&gt;   &lt;xs:complexType&gt;     &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;       &lt;xs:group ref="type_size_choice_define"/&gt;       &lt;xs:element ref="comment"/&gt;     &lt;/xs:choice&gt;     &lt;xs:attribute name="name"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Name of the argument.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>																																														

```

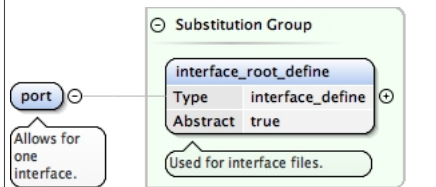
</xs:attribute>
<xs:attribute name="pass_by" type="pass_by_define">
  <xs:annotation>
    <xs:documentation>Defines how the arguments are passed.</xs:documentation>
  </xs:annotation>
</xs:attribute>
<xs:attribute name="comment" type="xs:string">
  <xs:annotation>
    <xs:documentation>Comments about 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	<ul style="list-style-type: none"> <li>interface_root_define</li> </ul>
Source	<pre> &lt;xs:element name="interface" substitutionGroup="interface_root_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Allows for one interface.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>

## Element port

Namespace	No namespace
Annotations	Allows for one interface.
Diagram	
Substitution Group Affiliation	<ul style="list-style-type: none"> <li>interface_root_define</li> </ul>
Source	<pre> &lt;xs:element name="port" substitutionGroup="interface_root_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Allows for one interface.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:element&gt; </pre>

## Element external\_arg\_define / arg

Namespace	No namespace
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Diagram	<p>The diagram illustrates the structure of the 'arg' complex type. It consists of an 'arg' element containing an 'Attributes' group (name, comment, type_size_choice_define) and a choice between an 'enum' and a 'comment'.</p>																																							
Properties	content:	complex																																						
Model	(enum{0,1})   comment																																							
Children	comment, enum																																							
Instance	<pre>&lt;arg comment="" data_type="" name="" size="" type=""&gt;   &lt;enum name=""&gt;{0,1}&lt;/enum&gt;   &lt;comment&gt;{1,1}&lt;/comment&gt; &lt;/arg&gt;</pre>																																							
Attributes	<table><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr><tr><td><b>comment</b></td><td>xs:string</td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">Comments about the argument.</td></tr><tr><td><b>data_type</b></td><td>union of(xs:string, restriction of xs:token, restriction of xs:token)</td><td>optional</td><td></td></tr><tr><td><b>name</b></td><td></td><td>required</td><td></td></tr><tr><td></td><td colspan="3">Name of the argument.</td></tr><tr><td><b>size</b></td><td>xs:nonNegativeInteger</td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">The size of the argument.</td></tr><tr><td><b>type</b></td><td>union of(xs:string, restriction of xs:token, restriction of xs:token)</td><td>optional</td><td></td></tr></table>	QName	Type	Use		<b>comment</b>	xs:string	optional			Comments about the argument.			<b>data_type</b>	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional		<b>name</b>		required			Name of the argument.			<b>size</b>	xs:nonNegativeInteger	optional			The size of the argument.			<b>type</b>	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional				
QName	Type	Use																																						
<b>comment</b>	xs:string	optional																																						
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<b>name</b>		required																																						
	Name of the argument.																																							
<b>size</b>	xs:nonNegativeInteger	optional																																						
	The size of the argument.																																							
<b>type</b>	union of(xs:string, restriction of xs:token, restriction of xs:token)	optional																																						
Source	<pre>&lt;xs:element name="arg"&gt;   &lt;xs:complexType&gt;     &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;       &lt;xs:group ref="type_size_choice_define"/&gt;       &lt;xs:element ref="comment"/&gt;     &lt;/xs:choice&gt;     &lt;xs:attribute name="name" use="required"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Name of the argument.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attribute name="comment" type="xs:string"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Comments about the argument.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attributeGroup ref="type_size_choice_define"/&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>																																							

## Complex Type(s)

### Complex Type interface\_define

Namespace	No namespace
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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	<table><tr><th>QName</th><th>Type</th><th>Use</th><th></th></tr><tr><td><b>name</b></td><td></td><td>required</td><td></td></tr><tr><td></td><td colspan="3">Interface name.</td></tr><tr><td><b>namespace</b></td><td></td><td>optional</td><td></td></tr><tr><td></td><td colspan="3">Namespace in which the interface is in.</td></tr><tr><td><b>priority</b></td><td>xs:integer</td><td>optional</td><td></td></tr></table>	QName	Type	Use		<b>name</b>		required			Interface name.			<b>namespace</b>		optional			Namespace in which the interface is in.			<b>priority</b>	xs:integer	optional				
QName	Type	Use																										
<b>name</b>		required																										
	Interface name.																											
<b>namespace</b>		optional																										
	Namespace in which the interface is in.																											
<b>priority</b>	xs:integer	optional																										
Source	<pre>&lt;xs:complexType name="interface_define"&gt;   &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;     &lt;xs:element ref="include_header"/&gt;     &lt;xs:element ref="import_serializable_type"/&gt;     &lt;xs:element ref="args"/&gt;     &lt;xs:element ref="return"/&gt;     &lt;xs:element ref="comment"/&gt;   &lt;/xs:choice&gt;   &lt;xs:attribute name="name" use="required"&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt;Interface name.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;/xs:attribute&gt;   &lt;xs:attribute name="priority" type="xs:integer"/&gt;   &lt;xs:attribute name="namespace"&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt;Namespace in which the interface is in.&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;/xs:attribute&gt; &lt;/xs:complexType&gt;</pre>																											

## 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	<table border="1"> <tr> <td>enumeration</td><td>reference</td></tr> <tr> <td>enumeration</td><td>value</td></tr> <tr> <td>enumeration</td><td>pointer</td></tr> </table>	enumeration	reference	enumeration	value	enumeration	pointer
enumeration	reference						
enumeration	value						
enumeration	pointer						
Used by	Attributes arg_define/arg/@pass_by, return/@pass_by						
Source	<pre> &lt;xs:simpleType name="pass_by_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Defines how the variable is being passed.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:token"&gt;     &lt;xs:enumeration value="reference"/&gt;     &lt;xs:enumeration value="value"/&gt;     &lt;xs:enumeration value="pointer"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>						

### Simple Type full\_items\_define

Namespace	No namespace						
Annotations	Valid values for the full tag.						
Diagram							
Type	restriction of xs:token						
Facets	<table border="1"> <tr> <td>enumeration</td><td>drop</td></tr> <tr> <td>enumeration</td><td>assert</td></tr> <tr> <td>enumeration</td><td>block</td></tr> </table>	enumeration	drop	enumeration	assert	enumeration	block
enumeration	drop						
enumeration	assert						
enumeration	block						
Source	<pre> &lt;xs:simpleType name="full_items_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Valid values for the full tag.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:token"&gt;     &lt;xs:enumeration value="drop"/&gt;     &lt;xs:enumeration value="assert"/&gt;     &lt;xs:enumeration value="block"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>						

### Simple Type component\_role\_define

Namespace	No namespace														
Annotations	Choice for component roles.														
Diagram															
Type	restriction of xs:token														
Facets	<table border="1"> <tr> <td>enumeration</td><td>LogEvent</td></tr> <tr> <td>enumeration</td><td>LogTextEvent</td></tr> <tr> <td>enumeration</td><td>TimeGet</td></tr> <tr> <td>enumeration</td><td>ParamSet</td></tr> <tr> <td>enumeration</td><td>ParamGet</td></tr> <tr> <td>enumeration</td><td>Telemetry</td></tr> <tr> <td>enumeration</td><td>CmdRegistration</td></tr> </table>	enumeration	LogEvent	enumeration	LogTextEvent	enumeration	TimeGet	enumeration	ParamSet	enumeration	ParamGet	enumeration	Telemetry	enumeration	CmdRegistration
enumeration	LogEvent														
enumeration	LogTextEvent														
enumeration	TimeGet														
enumeration	ParamSet														
enumeration	ParamGet														
enumeration	Telemetry														
enumeration	CmdRegistration														

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

### Simple Type channel\_update\_define

Namespace	No namespace
Annotations	Choice between always and on_change. This is used in the channel 'update' tag.
Diagram	<p>channel_update_define is a restriction of xs:token. It is a simple type with a choice between 'always' and 'on_change'. xs:token is a built-in derived type representing tokenized strings. The base type of token is normalizedString.</p>
Type	restriction of xs:token
Facets	enumeration always enumeration on_change
Source	<pre> &lt;xs:simpleType name="channel_update_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Choice between always and on_change. This is used in the channel 'update' tag.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:token"&gt;     &lt;xs:enumeration value="always" /&gt;     &lt;xs:enumeration value="on_change" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

### Simple Type severity\_define

Namespace	No namespace
Annotations	Set of valid severity values. This is used for an event 'severity' tag.
Diagram	<p>severity_define is a restriction of xs:token. It is a simple type with a set of valid severity values: COMMAND, ACTIVITY_LO, ACTIVITY_HI, WARNING_LO, WARNING_HI, DIAGNOSTIC, and FATAL. xs:token is a built-in derived type representing tokenized strings. The base type of token is normalizedString.</p>
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	<pre> &lt;xs:simpleType name="severity_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Set of valid severity values. This is used for an event 'severity' tag.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:token"&gt;     &lt;xs:enumeration value="COMMAND" /&gt; </pre>

```

<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	<table border="1"> <tr> <td>enumeration</td><td>async</td></tr> <tr> <td>enumeration</td><td>sync</td></tr> <tr> <td>enumeration</td><td>guarded</td></tr> </table>	enumeration	async	enumeration	sync	enumeration	guarded
enumeration	async						
enumeration	sync						
enumeration	guarded						
Source	<pre> &lt;xs:simpleType name="command_kind_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Choice between different command kinds.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:token"&gt;     &lt;xs:enumeration value="async"/&gt;     &lt;xs:enumeration value="sync"/&gt;     &lt;xs:enumeration value="guarded"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>						

### Simple Type `component_types_define`

Namespace	No namespace						
Annotations	Choice between active, passive, or queued.						
Diagram							
Type	restriction of xs:token						
Facets	<table border="1"> <tr> <td>enumeration</td><td>active</td></tr> <tr> <td>enumeration</td><td>passive</td></tr> <tr> <td>enumeration</td><td>queued</td></tr> </table>	enumeration	active	enumeration	passive	enumeration	queued
enumeration	active						
enumeration	passive						
enumeration	queued						
Source	<pre> &lt;xs:simpleType name="component_types_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Choice between active, passive, or queued.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:token"&gt;     &lt;xs:enumeration value="active"/&gt;     &lt;xs:enumeration value="passive"/&gt;     &lt;xs:enumeration value="queued"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>						

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

### 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	<pre> graph LR     id_or_system_var_define --&gt; system_var_define     id_or_system_var_define --&gt; id_define     system_var_define --- sv_desc[Data type for items that are system variables.]     id_define --- id_desc[Defines a ID data type. Acceptable values formats include "10", "0xA", "xA".] </pre>
Type	union of(system_var_define, id_define)
Source	<pre> &lt;xs:simpleType name="id_or_system_var_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Data types for items that can either be numbers or references to system variables that have numbers.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:union memberTypes="system_var_define id_define"/&gt; &lt;/xs:simpleType&gt; </pre>

### Simple Type base\_code\_define

Namespace	No namespace
Annotations	Made for base codes, ie 0x100,0x200
Diagram	<pre> graph LR     base_code_define --&gt; system_var_define     base_code_define --&gt; restricts_xs_string     system_var_define --- sv_desc[Data type for items that are system variables.]     restricts_xs_string --- restricts_desc[restricts: xs:string] </pre>
Type	union of(system_var_define, restriction of xs:string)
Source	<pre> &lt;xs:simpleType name="base_code_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Made for base codes, ie 0x100,0x200&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:union memberTypes="system_var_define"&gt;     &lt;xs:simpleType&gt;       &lt;xs:restriction base="xs:string"&gt;         &lt;xs:pattern value="((0?x\d+) \d+)(,?)+"/&gt;       &lt;/xs:restriction&gt;     &lt;/xs:simpleType&gt;   &lt;/xs:union&gt; &lt;/xs:simpleType&gt; </pre>

### 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 <code>\$(\w _ \\-)+</code>
Source	<pre> &lt;xs:simpleType name="system_var_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Data type for items that are system variables.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:pattern value="\$(\w _ \\-)+"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

## 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 <code>((0?x\d+) \d+)</code>
Source	<pre> &lt;xs:simpleType name="id_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Defines a ID data type. Acceptable values formats include "10" , "0xA" , "xA".&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:pattern value="((0?x\d+) \d+)"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>

## Attribute(s)

### Attribute item / @name

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

### Attribute item / @value

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

### Attribute item / @comment

Namespace	No namespace
-----------	--------------

Annotations	Comment about the enum item.
Used by	Element item
Source	<pre>&lt;xs:attribute name="comment"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Comment about the enum item.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

**Attribute enum / @name**

Namespace	No namespace
Annotations	Enum Name.
Properties	use: required
Used by	Element enum
Source	<pre>&lt;xs:attribute name="name" use="required"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Enum Name.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

**Attribute arg\_define / arg / @name**

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

**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	<pre>&lt;xs:attribute name="pass_by" type="pass_by_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Defines how the arguments are passed.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

**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	<pre>&lt;xs:attribute name="comment" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Comments about the argument.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;</pre>



	</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	<pre>&lt;xs:attribute name="data_type"&gt;   &lt;xs:simpleType&gt;     &lt;xs:union memberTypes="xs:string"&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:token"&gt;           &lt;xs:enumeration value="string"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:token"&gt;           &lt;xs:enumeration value="ENUM"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:union&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>

**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	<pre>&lt;xs:attribute name="type"&gt;   &lt;xs:simpleType&gt;     &lt;xs:union memberTypes="xs:string"&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:token"&gt;           &lt;xs:enumeration value="string"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;       &lt;xs:simpleType&gt;         &lt;xs:restriction base="xs:token"&gt;           &lt;xs:enumeration value="ENUM"/&gt;         &lt;/xs:restriction&gt;       &lt;/xs:simpleType&gt;     &lt;/xs:union&gt;   &lt;/xs:simpleType&gt; &lt;/xs:attribute&gt;</pre>

**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	<pre>&lt;xs:attribute name="size" type="xs:nonNegativeInteger"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;The size of the argument.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

**Attribute return / @name**

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

Source	<pre>&lt;xs:attribute name="name"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Name of the argument.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>
--------	---

**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	<pre>&lt;xs:attribute name="pass_by" type="pass_by_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Defines how the arguments are passed.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

**Attribute return / @comment**

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

**Attribute interface\_define / @name**

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

**Attribute interface\_define / @priority**

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

**Attribute interface\_define / @namespace**

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

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

### 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	<pre>&lt;xs:attribute name="name" use="required"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Name of the argument.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

### 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	<pre>&lt;xs:attribute name="comment" type="xs:string"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Comments about the argument.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;</pre>

## Element Group(s)

### Element Group arg\_define

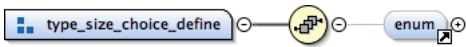
Namespace	No namespace
Annotations	Arguments with the pass by attribute.
Diagram	<pre>graph LR     subgraph arg_define [arg_define]         direction TB         G1[Group] --- C((Choice))         C --- G2[Group]         C --- E1[Element]         G1 --- E2[Element]     end</pre>
Used by	Element args
Model	arg
Children	arg
Source	<pre>&lt;xs:group name="arg_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Arguments with the pass by attribute.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="arg"&gt;       &lt;xs:complexType&gt;         &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;           &lt;xs:group ref="type_size_choice_define"/&gt;           &lt;xs:element ref="comment"/&gt;         &lt;/xs:choice&gt;       &lt;/xs:complexType&gt;     &lt;/xs:element&gt;     &lt;xs:attribute name="name" use="required"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Name of the argument.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;     &lt;xs:attribute name="pass_by" type="pass_by_define"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;Defines how the arguments are passed.&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:attribute&gt;   &lt;/xs:sequence&gt; &lt;/xs:group&gt;</pre>

```

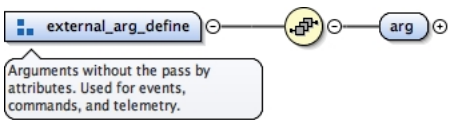
        </xs:annotation>
      </xs:attribute>
      <xs:attribute name="comment" type="xs:string">
        <xs:annotation>
          <xs:documentation>Comments about the argument.</xs:documentation>
        </xs:annotation>
      </xs:attribute>
      <xs:attributeGroup ref="type_size_choice_define"/>
    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

```

## Element Group type\_size\_choice\_define

Namespace	No namespace
Diagram	 The diagram shows a blue box labeled 'type_size_choice_define' connected to a yellow circle with a plus sign, which is then connected to a blue box labeled 'enum'.
Used by	Elements arg_define/arg, external_arg_define/arg, return
Model	enum{0,1}
Children	enum
Source	<pre> &lt;xs:group name="type_size_choice_define"&gt;   &lt;xs:sequence&gt;     &lt;xs:element minOccurs="0" ref="enum" /&gt;   &lt;/xs:sequence&gt; &lt;/xs:group&gt; </pre>

## Element Group external\_arg\_define

Namespace	No namespace
Annotations	Arguments without the pass by attributes. Used for events, commands, and telemetry.
Diagram	 The diagram shows a blue box labeled 'external_arg_define' connected to a yellow circle with a plus sign, which is then connected to a blue box labeled 'arg'. A callout box points to the 'external_arg_define' box with the text: 'Arguments without the pass by attributes. Used for events, commands, and telemetry.'
Model	arg
Children	arg
Source	<pre> &lt;xs:group name="external_arg_define"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;Arguments without the pass by attributes. Used for events, commands, and     telemetry.&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="arg"&gt;       &lt;xs:complexType&gt;         &lt;xs:choice minOccurs="0" maxOccurs="unbounded"&gt;           &lt;xs:group ref="type_size_choice_define" /&gt;           &lt;xs:element ref="comment" /&gt;         &lt;/xs:choice&gt;         &lt;xs:attribute name="name" use="required"&gt;           &lt;xs:annotation&gt;             &lt;xs:documentation&gt;Name of the argument.&lt;/xs:documentation&gt;           &lt;/xs:annotation&gt;         &lt;/xs:attribute&gt;         &lt;xs:attribute name="comment" type="xs:string"&gt;           &lt;xs:annotation&gt;             &lt;xs:documentation&gt;Comments about the argument.&lt;/xs:documentation&gt;           &lt;/xs:annotation&gt;         &lt;/xs:attribute&gt;         &lt;xs:attributeGroup ref="type_size_choice_define" /&gt;       &lt;/xs:complexType&gt;     &lt;/xs:element&gt;   &lt;/xs:sequence&gt; &lt;/xs:group&gt; </pre>

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