# Schema documentation for command\_schema.xsd

august 31, 2016

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# Namespace: ""

# Schema(s)

#### Main schema command\_schema.xsd

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

#### Included schema common\_elements.xsd

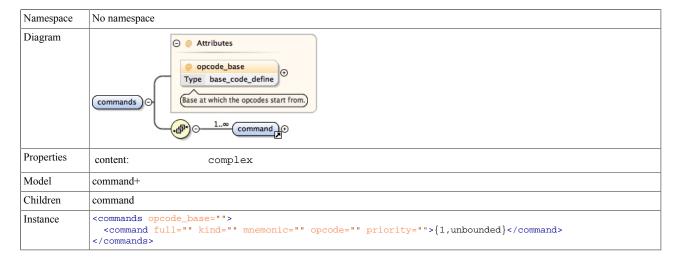
Namespace	No namespace	
Properties	attribute form default:	unqualified
	element form default:	qualified

#### Included schema common\_types.xsd

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

# Element(s)

#### Element commands



Attributes	QName	Type	Use	
	opcode_base	base_code_define	optional	
		Base at which the opcodes	s start from.	
Source	<pre> <xs:attribute name="o&lt;/td&gt;&lt;td&gt;rs=" ref="commar&lt;br&gt;pcode_base" type="base_composed by base at which the opcode&lt;/td&gt;&lt;td&gt;de_define" unbounded"=""></xs:attribute></pre>	:documentation>		

# Element command

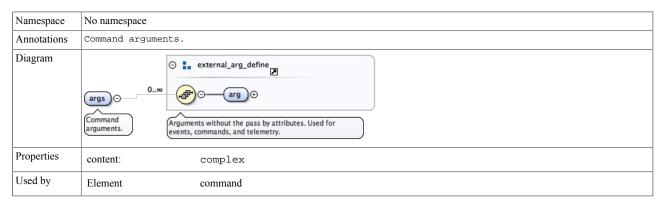
Namespace	No namespace				
Diagram	Attributes    kind     Type   command_kind_define     Command kind.     opcode     Type   id_define     Command opcode.     mnemonic     priority     Type   xs:integer     Priority of the command.     full     Type   full_items_define     Comment   O				
Properties	content: complex				
Used by	Element commands				
Model	comment   args				
Children	args, comment				
Instance					
Attributes	QName	Туре	Use		
	full	full_items_define	optional		
		Describes what to do wi	th incoming items	if full.	
	kind	command_kind_define	required		
		Command kind.			
	mnemonic		required		
		Command mnemonic.			
	opcode	id_define	required		

	QName	Туре	Use	
		Command opcode.		
	priority	xs:integer	optional	
		Priority of the command.		
Source	<pre><xs:element 0"="" :="" maxoccurs="unbounded" mment"="" ref="co&lt;/td&gt;&lt;td&gt;"></xs:element> gs"/&gt; ind" use="required" type= &gt;Command kind.Command opcode. &gt;Command mnemonic. &gt;Priority of the command.</pre>	<pre>"command_kind_def ntation&gt; e="id_define"&gt; mentation&gt; cumentation&gt; "&gt; </pre>		

#### Element comment

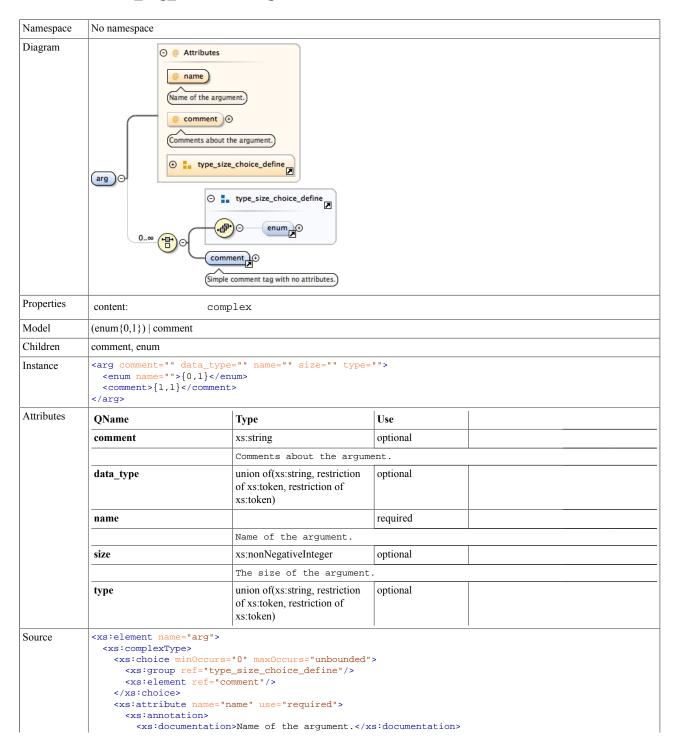
Namespace	No namespace			
Annotations	uple comment tag with no attributes.			
Diagram	Simple comment tag with no attributes.  Built-in primitive type. The string datatype represents character strings in XML.			
Туре	xs:string			
Properties	content: simple			
Used by	Elements arg_define/arg, command, external_arg_define/arg, return			
Source	<pre><xs:element name="comment" type="xs:string">     <xs:annotation></xs:annotation></xs:element></pre>			

# **Element** args

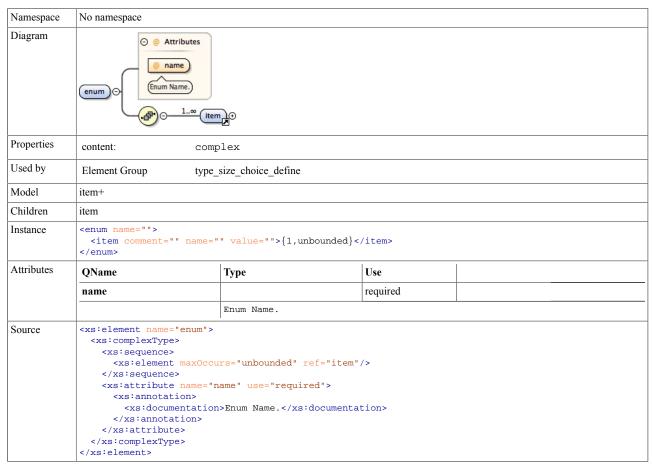


```
Model
            arg
Children
            arg
Instance
            <args>
              <arg comment="" data_type="" name="" size="" type="">\{1,1\}
            </args>
            <xs:element name="args">
Source
              <xs:annotation>
                <xs:documentation>Command arguments.</xs:documentation>
              </xs:annotation>
              <xs:complexType>
                <xs:group minOccurs="0" maxOccurs="unbounded" ref="external_arg_define"/>
              </xs:complexType>
             </xs:element>
```

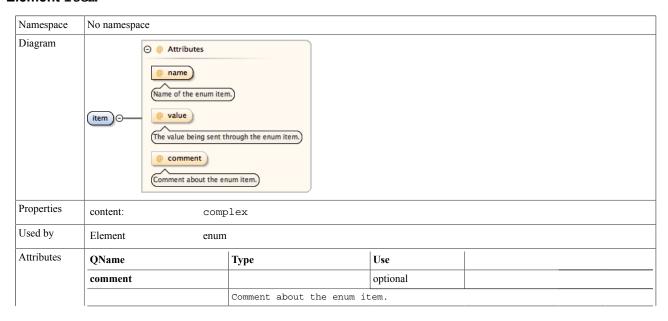
#### Element external\_arg\_define / arg



#### Element enum

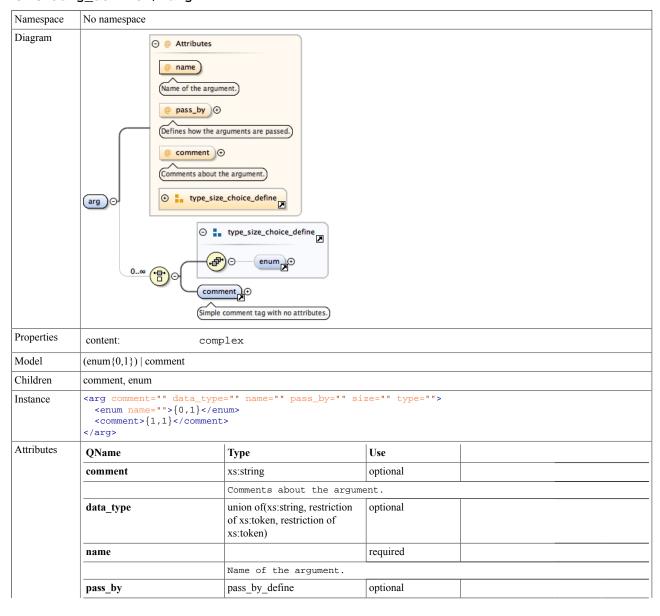


#### Element item



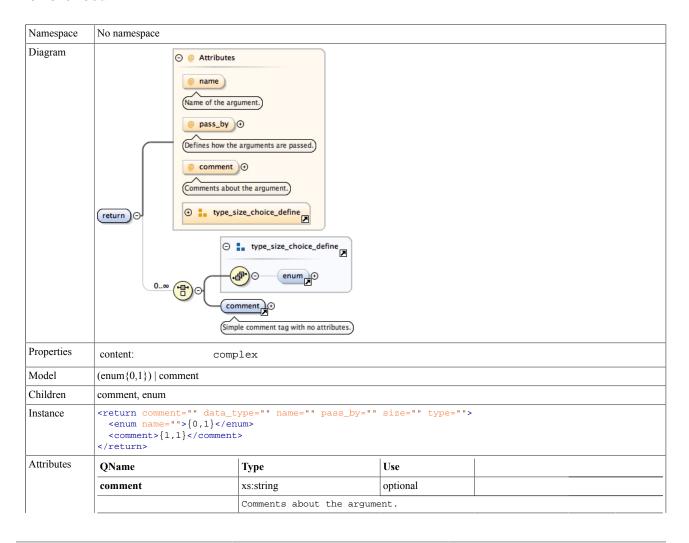
	QName	Туре	Use	
	name		required	
	Name of the enum item.			
	value		optional	
		The value being sent thro	ough the enum item	m.
Source	<pre>  </pre>			

#### Element arg\_define / arg



	QName	Туре	Use	
		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><xs:group <="" co="" ref="type &lt;xs:element ref=" xs:choice=""> <xs:attribute <xs:annotation="" <xs:attribute="" name="p &lt;xs:attribute name=" p="">   </xs:attribute>       </xs:group></pre>		s:documentation> ine"> s are passed. <th></th>	

# Element return



	QName	Type	Use		
	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	<pre><xs:group <="" co="" ref="type &lt;xs:element ref=" xs:choice=""> <xs:attribute 0"="" <br="" <xs:attribute="" maxoccurs="unbounded" name="p &lt;xs:annotation&gt; &lt;/xs:annotation&gt; &lt;/xs:annotation&gt; &lt;/xs:attribute &lt;xs:attribute &lt;xs:attribute &lt;xs:attribute &lt;xs:attribute &lt;xs:attribute &lt;xs:attribute &lt;xs:attribute &lt;xs:annotation&gt; &lt;/xs:annotation&gt; &lt;/xs:annotation&gt; &lt;/xs:annotation&gt; &lt;/xs:annotation&gt; &lt;/xs:annotation&gt; &lt;/xs:attribute&gt;&lt;/xs:attribute&gt;&lt;/xs:attribute&gt;&lt;/xs:attribute&gt;&lt;/xs:attribute&gt;&lt;/xs:attribute&gt;&lt;/xs:attribute&gt;&lt;/xs:attribute&gt;&lt;/xs:attribute&gt;&lt;/th&gt;&lt;th&gt;" p="">e_size_choice_define"/&gt;</xs:attribute></xs:group></pre>	s:documentation> ine"> s are passed. <th></th>			

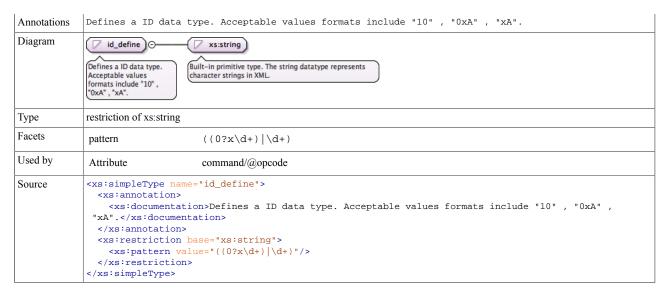
# Simple Type(s)

# Simple Type command\_kind\_define

Namespace	No namespace		
Annotations	Choice between different command kinds.		
Diagram	Choice between different command kinds.  Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.		
Туре	restriction of xs:token		
Facets	enumeration async		
	enumeration sync		
	enumeration guarded		
Used by	Attribute command/@kind		
Source	<pre><xs:simpletype name="command_kind_define"></xs:simpletype></pre>		

# Simple Type id\_define

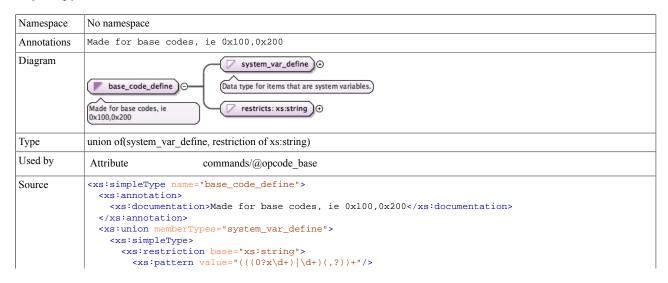
Namespace	No namespace
-----------	--------------



# Simple Type full\_items\_define

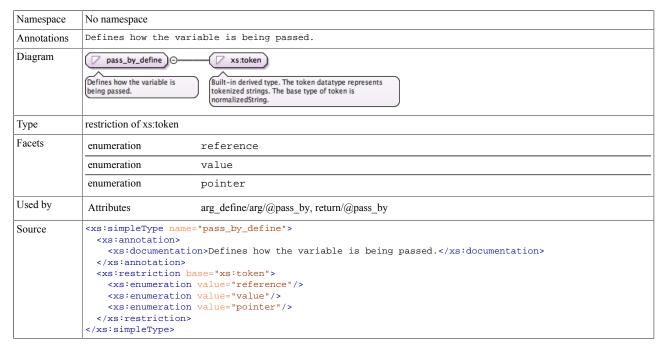


# Simple Type base\_code\_define



```
</xs:restriction>
  </xs:simpleType>
  </xs:union>
  </xs:simpleType>
```

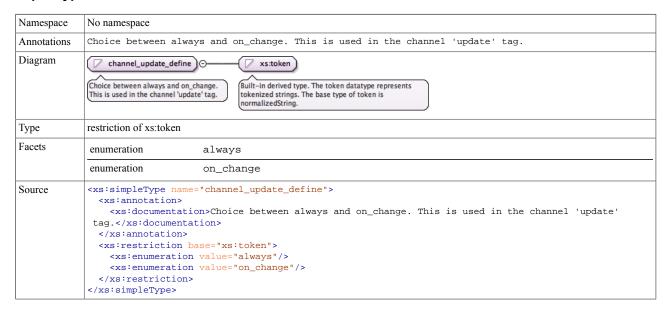
# Simple Type pass\_by\_define



# Simple Type component\_role\_define

Namespace	No namespace	
Annotations	Choice for component roles.	
Diagram	component_role_defin	Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.
Туре	restriction of xs:token	
Facets	enumeration	LogEvent
	enumeration	LogTextEvent
	enumeration	TimeGet
	enumeration	ParamSet
	enumeration	ParamGet
	enumeration	Telemetry
	enumeration	CmdRegistration
	enumeration	Cmd
	enumeration	CmdResponse
Source	<pre><xs:annotation></xs:annotation></pre>	n value="LogEvent"/> n value="LogTextEvent"/> n value="TimeGet"/> n value="ParamSet"/> n value="ParamGet"/> n value="ParamGet"/> n value="CmdRegistration"/> n value="CmdResponse"/>

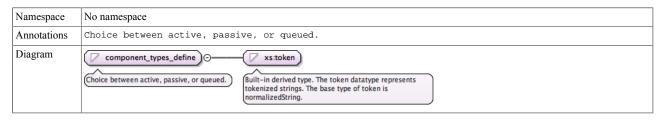
# Simple Type channel\_update\_define



#### Simple Type severity\_define

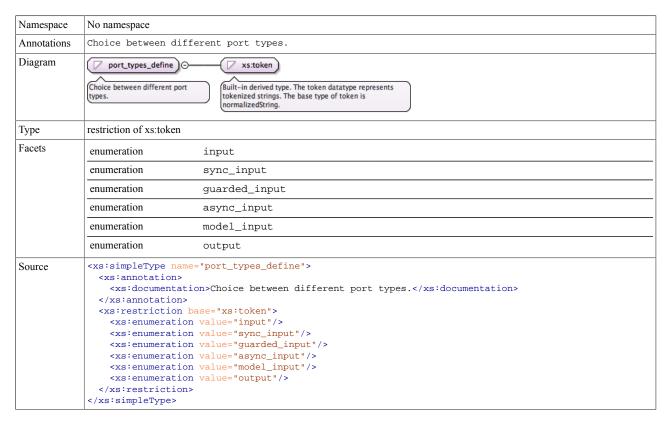


#### Simple Type component\_types\_define

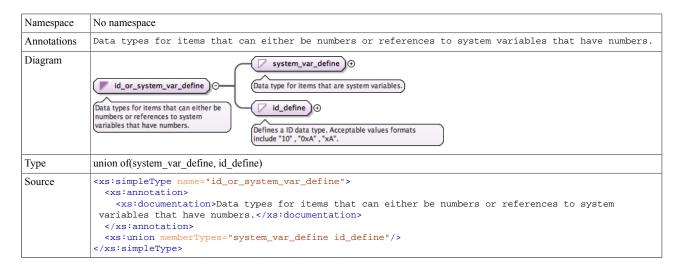


Type	restriction of xs:token	
Facets	enumeration	active
	enumeration	passive
	enumeration	queued
Source	<pre>enumeration</pre>	

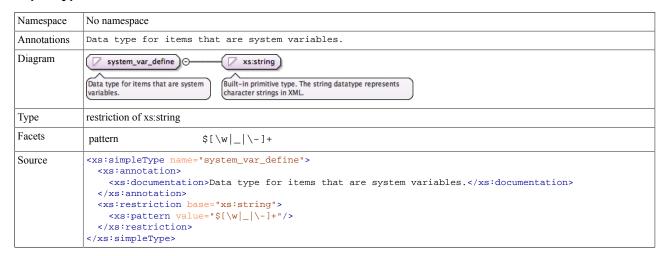
# Simple Type port\_types\_define



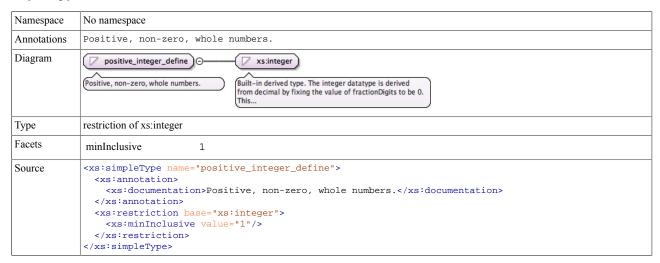
#### Simple Type id\_or\_system\_var\_define



#### Simple Type system\_var\_define



#### Simple Type positive\_integer\_define



# Simple Type int8\_t\_define



# Simple Type uint8\_t\_define

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

Annotations	Unsigned 8 bit in	uteger
Diagram	Unsigned 8 bit integer	Built-in derived type. The unsignedByte datatype is derived from unsignedShort by setting the value of maxInclusive to
Type	restriction of xs:unsig	nedByte
Facets	maxInclusive	255
	minInclusive	0
Used by	Simple Type	U8_define
Source	<pre><xs:annotation></xs:annotation></pre>	<pre>ation&gt;Unsigned 8 bit integer a base="xs:unsignedByte"&gt; tive value="0"/&gt; tive value="255"/&gt;</pre>

# Simple Type int16\_t\_define

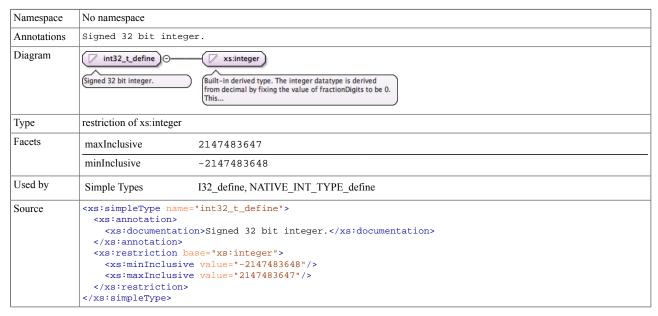
Namespace	No namespace	
Annotations	Signed 16 bit inte	eger.
Diagram	int16_t_define O— (Signed 16 bit integer.	Built-in derived type. The int datatype is derived from long by setting the value of maxinclusive to be 2147483647 and
Туре	restriction of xs:int	
Facets	maxInclusive	32767
	minInclusive	-32768
Used by	Simple Type	I16_define
Source	<pre><xs:annotation>     <xs:documentat <="" <xs:mininclus:<="" <xs:restriction="" pre="" xs:annotation:=""></xs:documentat></xs:annotation></pre>	<pre>base="xs:int"&gt; ive value="-32768"/&gt; ive value="32767"/&gt;</pre>

# Simple Type uint16\_t\_define

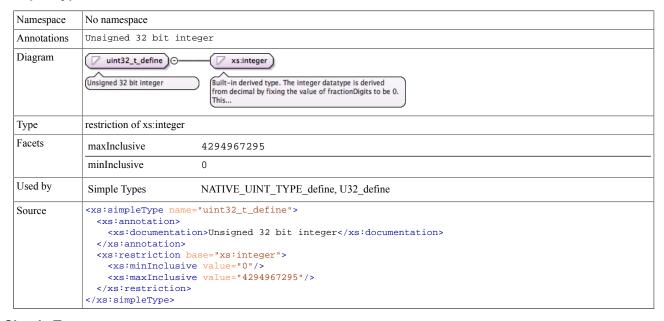


</xs:simpleType>

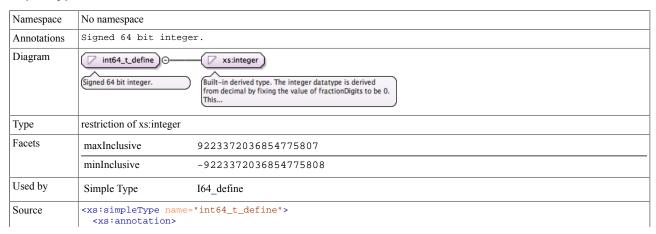
#### Simple Type int32\_t\_define



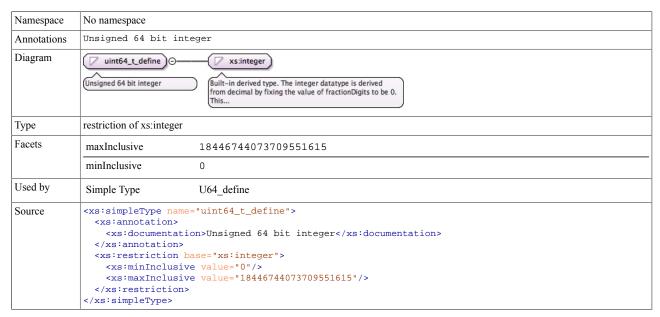
# Simple Type uint32\_t\_define



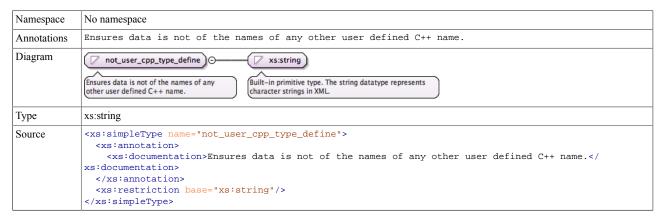
#### Simple Type int64\_t\_define



# Simple Type uint64\_t\_define



# Simple Type not\_user\_cpp\_type\_define



#### Simple Type NATIVE\_INT\_TYPE\_define

Namespace	No namespace	
Annotations	native integer type declaration	
Diagram	NATIVE_INT_TYPE_define  int32_t_define  int32_	
Туре	int32_t_define	
Type hierarchy	• xs:integer	
	• int32_t_define	
	NATIVE_INT_TYPE_define	
Facets	maxInclusive 2147483647	
	minInclusive -2147483648	
Source	<pre><xs:simpletype name="NATIVE_INT_TYPE_define">   <xs:annotation></xs:annotation></xs:simpletype></pre>	

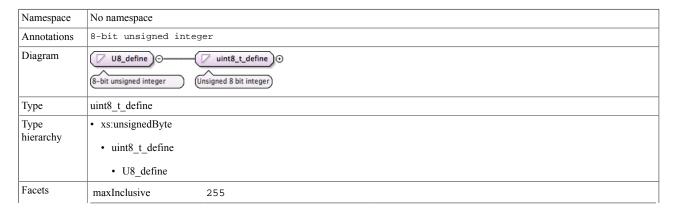
#### Simple Type NATIVE\_UINT\_TYPE\_define

Namespace	No namespace	
Annotations	native unsigned integer type declaration	
Diagram	NATIVE_UINT_TYPE_define     ○     ✓ uint32_t_define       (uint32_t_define)     ○       (unative unsigned integer type declaration)     (Unsigned 32 bit integer)	
Туре	uint32_t_define	
Type hierarchy	<ul><li> xs:integer</li><li> uint32_t_define</li><li> NATIVE_UINT_TYPE_define</li></ul>	
Facets	maxInclusive 4294967295	
	minInclusive 0	
Source	<pre><xs:simpletype name="NATIVE_UINT_TYPE_define">     <xs:annotation>     <xs:documentation>native unsigned integer type declaration</xs:documentation>     </xs:annotation>     <xs:restriction base="uint32_t_define"></xs:restriction> </xs:simpletype></pre>	

#### Simple Type 18\_define



#### Simple Type U8\_define



	minInclusive	0
Used by	Simple Type	BYTE_define
Source		=="U8_define">  .on>8-bit unsigned integer  .oase="uint8_t_define"/>

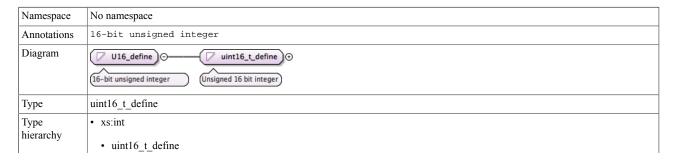
#### Simple Type BYTE\_define

Namespace	No namespace	
Annotations	byte type	
Diagram	BYTE_define     ⊙     ✓     U8_define     ⊙       byte type     (8-bit unsigned integer)	
Туре	U8_define	
Type hierarchy	<ul> <li>xs:unsignedByte</li> <li>uint8_t_define</li> <li>U8_define</li> <li>BYTE_define</li> </ul>	
Facets	maxInclusive 255	
	minInclusive 0	
Source	<pre><xs:simpletype name="BYTE_define"></xs:simpletype></pre>	

# Simple Type I16\_define



# Simple Type U16\_define



#### Simple Type I32\_define

Namespace	No namespace	
Annotations	32-bit signed integer	
Diagram	☐ I32_define ☐ int32_t_define ☐ int32_t	
Туре	int32_t_define	
Type hierarchy	<ul><li> xs:integer</li><li> int32_t_define</li><li> I32_define</li></ul>	
Facets	maxInclusive 2147483647	
	minInclusive -2147483648	
Source	<pre><xs:simpletype name="I32_define">     <xs:annotation>         <xs:documentation>32-bit signed integer</xs:documentation>         </xs:annotation>         <xs:restriction base="int32_t_define"></xs:restriction>         </xs:simpletype></pre>	

#### Simple Type U32\_define



#### Simple Type 164\_define

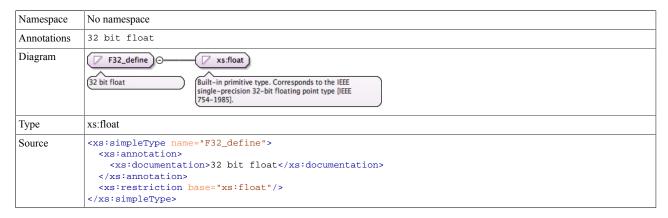


Type	int64_t_define	
Туре	• xs:integer	
hierarchy	• int64_t_define	
	• I64_define	
Facets	maxInclusive	9223372036854775807
	minInclusive	-9223372036854775808
Source	<pre><xs:simpletype name="I64_define">     <xs:annotation>         <xs:documentation>64-bit unsigned integer</xs:documentation>         </xs:annotation>         <xs:restriction base="int64_t_define"></xs:restriction>         </xs:simpletype></pre>	

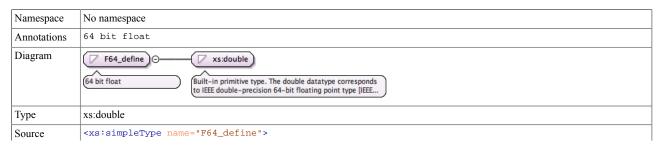
## Simple Type U64\_define

Namespace	No namespace		
Annotations	64-bit unsigned integer		
Diagram	U64_define   uint64_t_define  64-bit unsigned integer  Unsigned 64 bit integer		
Type	uint64_t_define		
Type hierarchy	<ul> <li>xs:integer</li> <li>uint64_t_define</li> <li>U64_define</li> </ul>		
Facets	maxInclusive 18446744073709551615		
	minInclusive 0		
Source	<pre><xs:simpletype name="U64_define"></xs:simpletype></pre>		

# Simple Type F32\_define



# Simple Type F64\_define



# Attribute(s)

# Attribute item / @name

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

#### Attribute item / @value

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

#### Attribute item / @comment

Namespace	No namespace		
Annotations	Comment about the enum item.		
Used by	Element item		
Source	<pre><xs:attribute name="comment">     <xs:annotation>     <xs:documentation>Comment about the enum item.</xs:documentation>     </xs:annotation> </xs:attribute></pre>		

#### Attribute enum / @name

Namespace	No namespace	
Annotations	Enum Name.	
Properties	use:	required
Used by	Element	enum
Source	<pre><xs:attribute name="name" use="required"></xs:attribute></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><xs:attribute name="name" use="required"></xs:attribute></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><xs:attribute name="comment" type="xs:string">     <xs:annotation></xs:annotation></xs:attribute></pre>

#### Attribute type\_size\_choice\_define / @data\_type

Namespace	No namespace	
Туре	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><xs:simple< td=""><td>mberTypes="xs:string"&gt; Type&gt; riction base="xs:token"&gt; meration value="string"/&gt; rriction&gt; eType&gt; Fype&gt; riction base="xs:token"&gt; meration value="ENUM"/&gt; criction base="xs:token"&gt; meration value="ENUM"/&gt; criction&gt; eType&gt;</td></xs:simple<></pre>	mberTypes="xs:string"> Type> riction base="xs:token"> meration value="string"/> rriction> eType> Fype> riction base="xs:token"> meration value="ENUM"/> criction base="xs:token"> meration value="ENUM"/> criction> eType>

#### Attribute type\_size\_choice\_define / @type

Namespace	No namespace	
Туре	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><xs:simplet <="" <xs:enu="" <xs:restr="" <xs:restr<="" <xs:simplet="" pre="" xs:restr="" xs:simple=""></xs:simplet></pre>	<pre>berTypes="xs:string"&gt; ype&gt; iction base="xs:token"&gt; meration value="string"/&gt; riction&gt; Type&gt; ype&gt; iction base="xs:token"&gt; meration value="ENUM"/&gt; riction&gt; Type&gt; ype&gt; iction base="xs:token"&gt; meration value="ENUM"/&gt; riction&gt; Type&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><xs:attribute name="size" type="xs:nonNegativeInteger">     <xs:annotation></xs:annotation></xs:attribute></pre>	

#### Attribute command / @kind

Namespace	No namespace	
Annotations	Command kind.	
Туре	command_kind_define	
Properties	use:	required
Facets	enumeration	async
	enumeration	sync
	enumeration	guarded
Used by	Element	command
Source	<pre><xs:attribute name="kind" type="command_kind_define" use="required"></xs:attribute></pre>	

#### Attribute command / @opcode

Namespace	No namespace	
Annotations	Command opcode.	
Туре	id_define	
Properties	use:	required
Facets	pattern	((0?x\d+) \d+)
Used by	Element	command
Source	<pre><xs:attribute name="opcode" type="id_define" use="required"></xs:attribute></pre>	

#### Attribute command / @mnemonic

Namespace	No namespace	
Annotations	Command mnemonic.	
Properties	use:	required
Used by	Element	command
Source	<pre><xs:attribute name="mnemonic" use="required">     <xs:annotation>         <xs:documentation>Command mnemonic.</xs:documentation>         </xs:annotation>         </xs:attribute></pre>	

# Attribute command / @priority

Namespace	No namespace	
Annotations	Priority of the command.	
Type	xs:integer	

Properties	content:	simple
Used by	Element	command
Source	<pre><xs:attribute name="priority" type="xs:integer">     <xs:annotation></xs:annotation></xs:attribute></pre>	

#### Attribute command / @full

Namespace	No namespace			
Annotations	Describes what to	Describes what to do with incoming items if full.		
Type	full_items_define			
Properties	content:	simple		
Facets	enumeration	drop		
	enumeration	assert		
	enumeration	block		
Used by	Element	command		
Source	<pre><xs:attribute name="full" type="full_items_define"></xs:attribute></pre>			

# Attribute commands / @opcode\_base

Namespace	No namespace	
Annotations	Base at which t	he opcodes start from.
Туре	base_code_define	
Properties	content:	simple
Used by	Element	commands
Source	<xs:annotatio< td=""><td>itation&gt;Base at which the opcodes start from. on&gt;</td></xs:annotatio<>	itation>Base at which the opcodes start from. on>

# Attribute arg\_define / arg / @name

Namespace	No namespace	No namespace	
Annotations	Name of the a	argument.	
Properties	use:	required	
Used by	Element	arg_define/arg	
Source	<pre><xs:attribute name="name" use="required">     <xs:annotation>         <xs:documentation>Name of the argument.</xs:documentation>         </xs:annotation>         </xs:attribute></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><xs:annotation></xs:annotation></pre>	"pass_by" type="pass_by_define"> on>Defines how the arguments are passed.

# Attribute arg\_define / arg / @comment

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

#### Attribute return / @name

Namespace	No namespace		
Annotations	Name of the argument.		
Used by	Element return		
Source	<pre><xs:attribute name="name">     <xs:annotation>         <xs:documentation>Name of the argument.</xs:documentation>         </xs:annotation>         </xs:attribute></pre>		

# Attribute return / @pass\_by

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

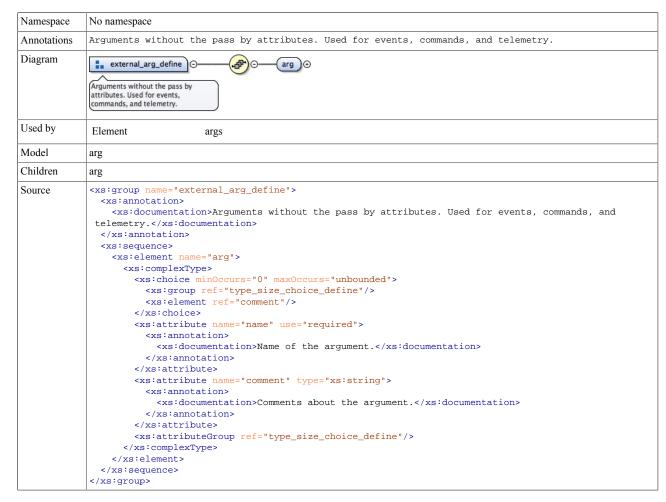
# Attribute return / @comment

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

</xs:attribute>

## **Element Group(s)**

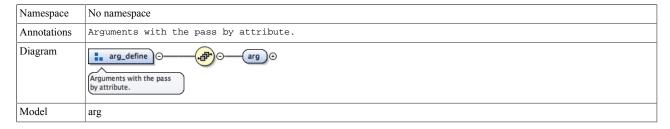
#### Element Group external\_arg\_define



#### Element Group type\_size\_choice\_define

Namespace	No namespace		
Diagram	type_size_choice_define		
Used by	Elements arg_define/arg, external_arg_define/arg, return		
Model	$enum\{0,1\}$		
Children	enum		
Source	<pre><xs:group name="type_size_choice_define">     <xs:sequence></xs:sequence></xs:group></pre>		

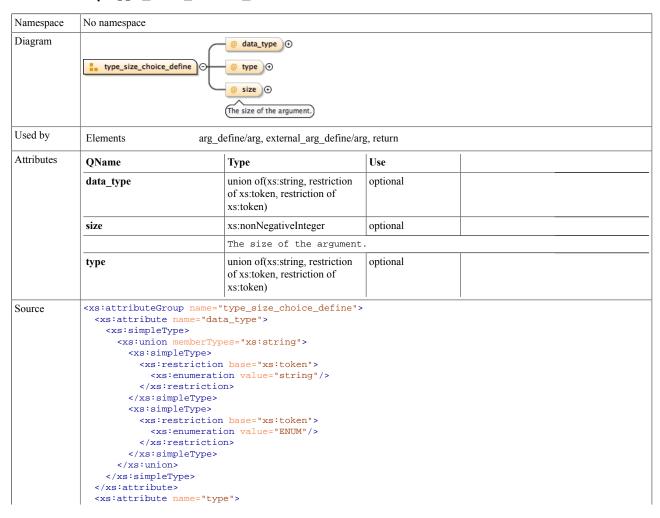
#### Element Group arg\_define



```
Children
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: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



```
<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>
```