Schema documentation for event_schema.xsd

august 31, 2016

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Namespace: ""

Schema(s)

Main schema event_schema.xsd

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

Included schema common_elements.xsd

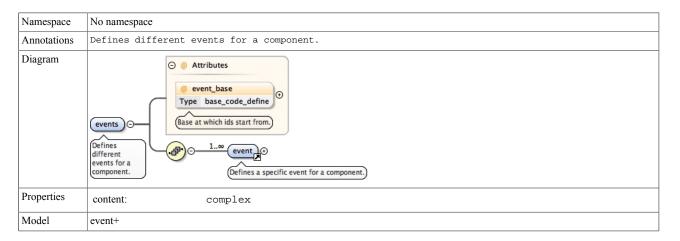
Namespace	No namespace	
Properties	attribute form default:	unqualified
	element form default:	qualified

Included schema common_types.xsd

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

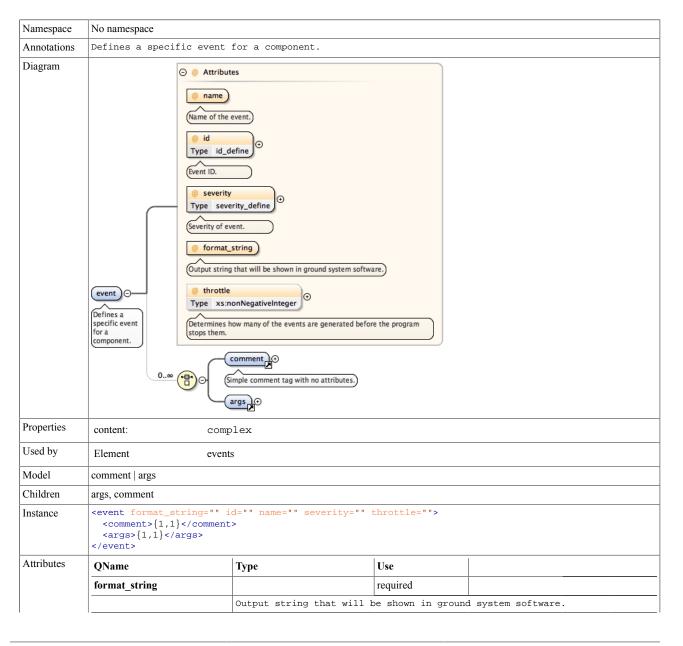
Element(s)

Element events



Children	event					
Instance	<pre><events event_base=""> <event format_string="" id="" name="" severity="" throttle="">{1,unbounded}</event> </events></pre>					
Attributes	QName	Туре	Use			
	event_base	base_code_define	optional			
		Base at which ids	start from.			
Source	<pre><xs:element name="events"> <xs:annotation></xs:annotation></xs:element></pre>					

Element event



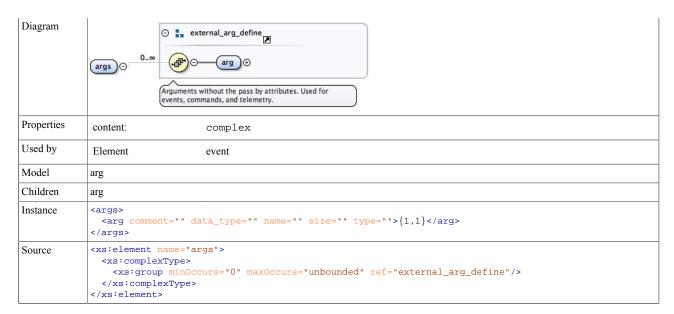
	QName	Туре	Use				
	id	id_define	required				
		Event ID.					
	name		required				
		Name of the event.					
	severity	severity_define	required				
		Severity of event.	Severity of event.				
	throttle	xs:nonNegativeInteger	optional				
		Determines how many of them.	the events are gen	erated before the program stops			
Source	<pre> <maintation> <maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></maintation></pre>						

Element comment

Namespace	No namespace
Annotations	Simple 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, event, external_arg_define/arg, return
Source	<pre><xs:element name="comment" type="xs:string"> <xs:annotation></xs:annotation></xs:element></pre>

Element args

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

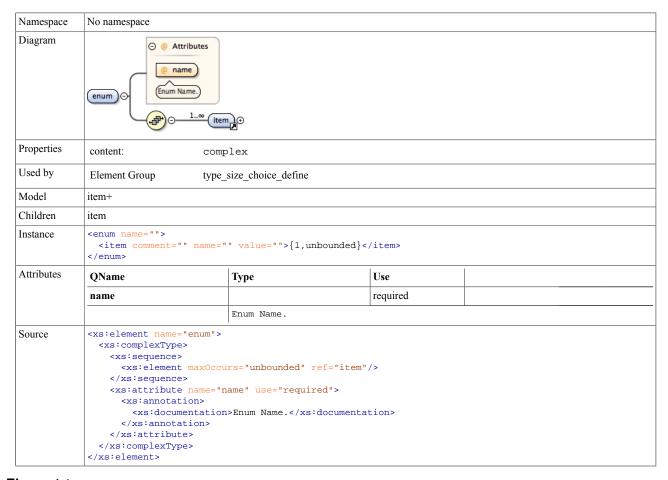


Element external_arg_define / arg

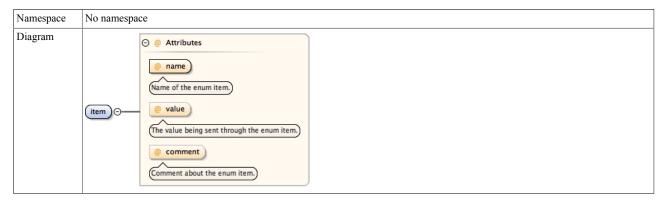
Namespace	No namespace			
Diagram	O	type_size_choice_define		
Properties	content: comp	plex		
Model	(enum{0,1}) comment			
Children	comment, enum			
Instance	<pre><arg <enum="" comment="" data_type="" name="">{0,1}{1,1}</arg></pre>	um>	" " >	
Attributes	QName	Туре	Use	
	comment	xs:string optional		
		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>
                     \verb| <xs: documentation| > Comments about the argument. </xs: documentation| >
                   </xs:annotation>
                 </xs:attribute>
                 <xs:attributeGroup ref="type_size_choice_define"/>
               </xs:complexType>
             </rd></rd></rd></rd>
```

Element enum

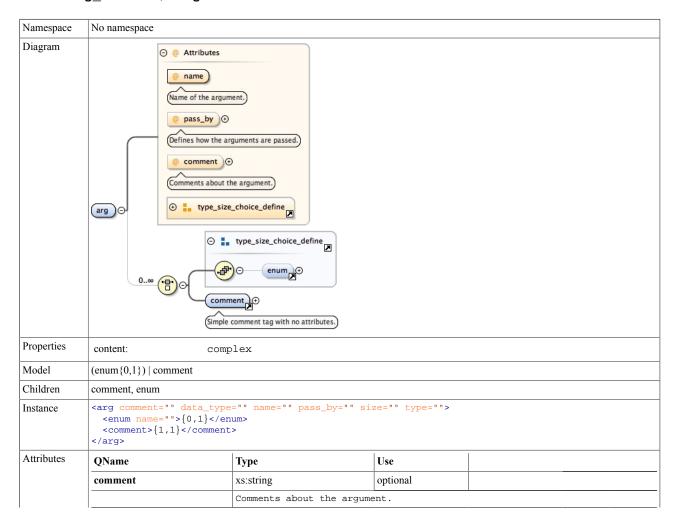


Element item



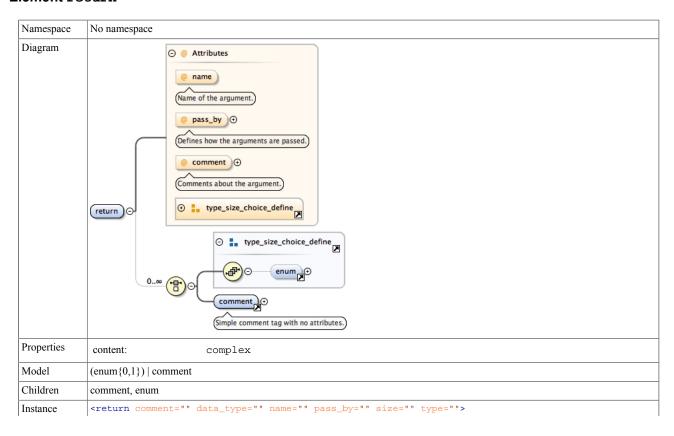
Properties	content: complex					
Used by	Element enum	1				
Attributes	QName	Туре	Use			
	comment		optional			
		Comment about the enum i	tem.			
	name		required			
		Name of the enum item.				
	value		optional			
		The value being sent thr	ough the enum ite	m.		
Source	<pre>The value being sent through the enum item. <xs:element name="item"></xs:element></pre>					

Element arg_define / arg



QName	Туре	Use		
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		

Element return



```
<enum name="">{0,1}</enum>
              <comment>{1,1}</comment>
Attributes
                                                                  Use
             OName
                                       Type
                                       xs:string
             comment
                                                                  optional
                                       Comments about the argument.
             data_type
                                       union of(xs:string, restriction
                                                                  optional
                                       of xs:token, restriction of
                                       xs:token)
             name
                                                                  optional
                                       Name of the argument.
                                       pass_by_define
             pass_by
                                                                  optional
                                       Defines how the arguments are passed.
             size
                                       xs:nonNegativeInteger
                                                                  optional
                                       The size of the argument.
                                       union of(xs:string, restriction
                                                                  optional
             type
                                       of xs:token, restriction of
                                       xs:token)
            <xs:element name="return">
Source
              <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: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>
```

Simple Type(s)

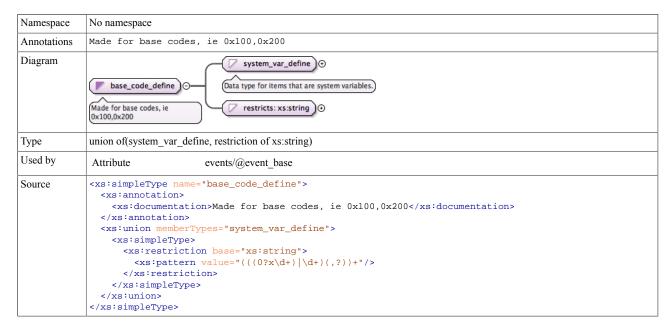
Simple Type id_define



Simple Type severity_define

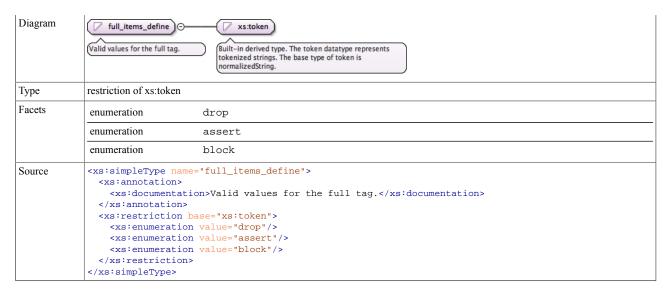
Namespace	No namespace	
Annotations	Set of valid severit	ry values. This is used for an event 'severity' tag.
Diagram	Set of valid severity values. This is used for an event 'severity' tag.	Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.
Type	restriction of xs:token	
Facets	enumeration	COMMAND
	enumeration	ACTIVITY_LO
	enumeration	ACTIVITY_HI
	enumeration	WARNING_LO
	enumeration	WARNING_HI
	enumeration	DIAGNOSTIC
	enumeration	FATAL
Used by	Attribute	event/@severity
Source	<pre><xs:simpletype name="severity_define"></xs:simpletype></pre>	

Simple Type base_code_define



Simple Type full_items_define

Namespace	No namespace
Annotations	Valid values for the full tag.



Simple Type pass_by_define

Namespace	No namespace	
Annotations	Defines how the var	iable is being passed.
Diagram	pass_by_define O Defines how the variable is being passed.	Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.
Туре	restriction of xs:token	
Facets	enumeration	reference
	enumeration	value
	enumeration	pointer
Used by	Attributes	arg_define/arg/@pass_by, return/@pass_by
Source	<pre><xs:simpletype name="pass_by_define"></xs:simpletype></pre>	

Simple Type component_role_define

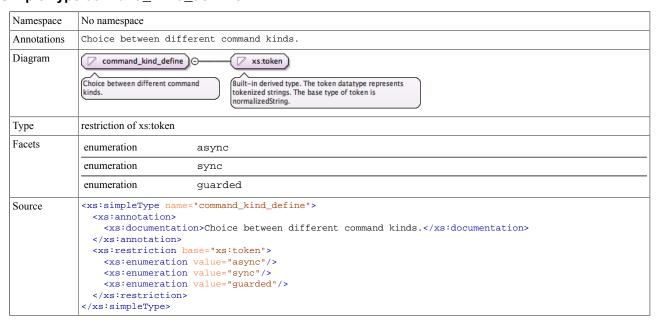
Namespace	No namespace	
Annotations	Choice for compo	nent roles.
Diagram	Choice for component roles	
Туре	restriction of xs:toker	n
Facets	enumeration	LogEvent
	enumeration	LogTextEvent
	enumeration	TimeGet
	enumeration	ParamSet
	enumeration	ParamGet
	enumeration	Telemetry
	enumeration	CmdRegistration

```
enumeration
             enumeration
                                 {\tt CmdResponse}
            <xs:simpleType name="component_role_define">
Source
              <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

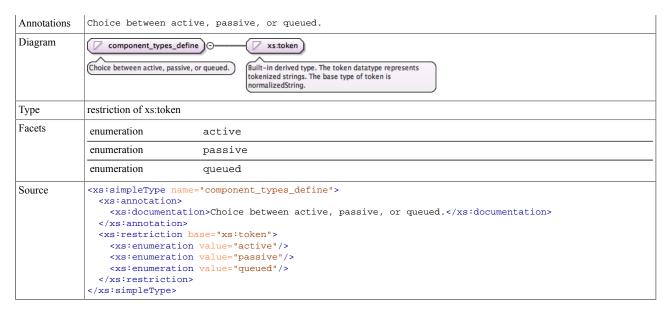
Namespace	No namespace		
Annotations	Choice between always and on_change. This is used in the channel 'update' tag.		
Diagram	Choice between always and on_change. This is used in the channel 'update' tag. Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.		
Type	restriction of xs:token		
Facets	enumeration always		
	enumeration on_change		
Source	<pre><xs:simpletype name="channel_update_define"></xs:simpletype></pre>		

Simple Type command_kind_define



Simple Type component_types_define

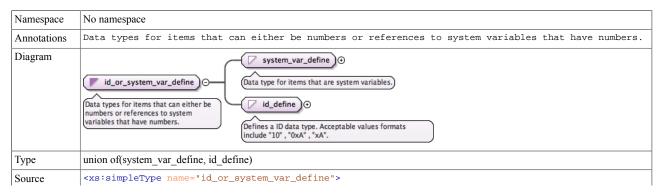
Namespace	No namespace
-----------	--------------



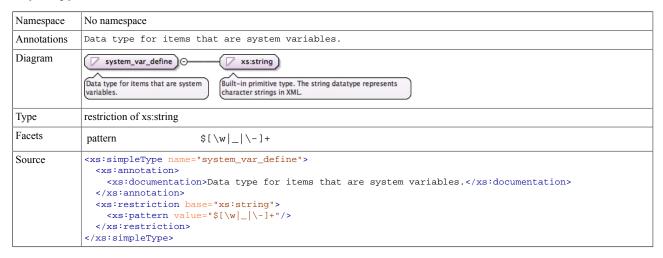
Simple Type port_types_define

Namespace	No namespace	
Annotations	Choice between different port types.	
Diagram	Choice between different port types. Built-in derived type. The token datatype represents tokenized strings. The base type of token is normalizedString.	
Туре	restriction of xs:token	
Facets	enumeration input	
	enumeration sync_input	
	enumeration guarded_input	
	enumeration async_input	
	enumeration model_input	
	enumeration output	
Source	<pre><xs:simpletype name="port_types_define"></xs:simpletype></pre>	

Simple Type id_or_system_var_define



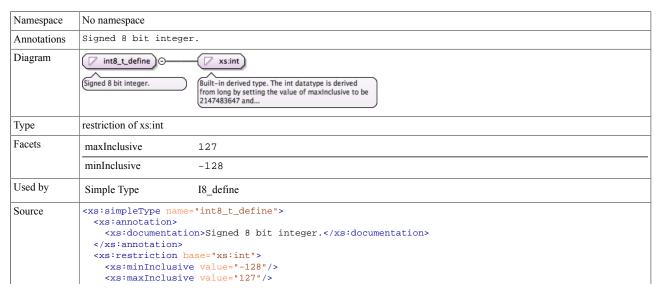
Simple Type system_var_define



Simple Type positive_integer_define

Namespace	No namespace	
Annotations	Positive, non-zero, whole numbers.	
Diagram	Positive, non-zero, whole numbers. Built-in derived type. The integer datatype is derived from decimal by fixing the value of fractionDigits to be 0. This	
Туре	restriction of xs:integer	
Facets	minInclusive 1	
Source	<pre><xs:simpletype name="positive_integer_define"></xs:simpletype></pre>	

Simple Type int8_t_define



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

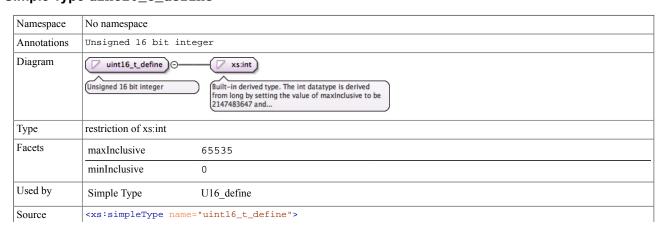
Simple Type uint8_t_define

Namespace	No namespace	
Annotations	Unsigned 8 bit int	eger
Diagram	Unsigned 8 bit integer	Built-in derived type. The unsignedByte datatype is derived from unsignedShort by setting the value of maxInclusive to
Туре	restriction of xs:unsigne	edByte
Facets	maxInclusive	255
	minInclusive	0
Used by	Simple Type	U8_define
Source	<pre><xs:simpletype name="uint8_t_define"></xs:simpletype></pre>	

Simple Type int16_t_define

Namespace	No namespace	
Annotations	Signed 16 bit integ	ger.
Diagram	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
Type	restriction of xs:int	
Facets	maxInclusive	32767
	minInclusive	-32768
Used by	Simple Type	I16_define
Source	<pre><xs:simpletype name="int16_t_define"> <xs:annotation></xs:annotation></xs:simpletype></pre>	

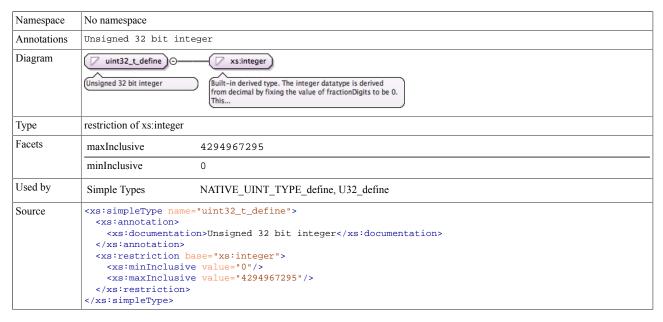
Simple Type uint16_t_define



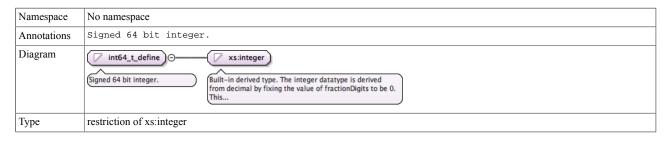
Simple Type int32_t_define

Namespace	No namespace	
Annotations	Signed 32 bit intege	er.
Diagram	int32_t_define	Built-in derived type. The integer datatype is derived from decimal by fixing the value of fractionDigits to be 0. This
Туре	restriction of xs:integer	
Facets	maxInclusive	2147483647
	minInclusive	-2147483648
Used by	Simple Types	132_define, NATIVE_INT_TYPE_define
Source	<pre><xs:simpletype name="int32_t_define"> <xs:annotation></xs:annotation></xs:simpletype></pre>	

Simple Type uint32_t_define



Simple Type int64_t_define

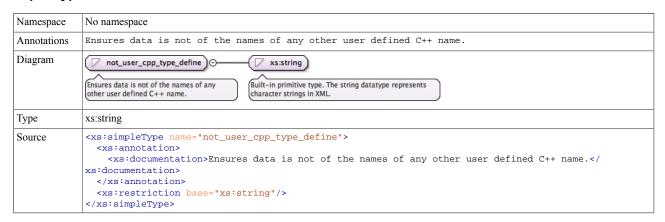


Facets	maxInclusive	9223372036854775807
	minInclusive	-9223372036854775808
Used by	Simple Type	I64_define
Source	<pre><xs:annotation <="" <xs:document="" <xs:mininclument="" <xs:restriction="" pre="" xs:annotation=""></xs:annotation></pre>	action>Signed 64 bit integer. on> on base="xs:integer"> sive value="-9223372036854775808"/> sive value="9223372036854775807"/> on>

Simple Type uint64_t_define

Namespace	No namespace	
Annotations	Unsigned 64 bit i	nteger
Diagram	uint64_t_define	Built-in derived type. The integer datatype is derived from decimal by fixing the value of fractionDigits to be 0. This
Туре	restriction of xs:intege	or .
Facets	maxInclusive	18446744073709551615
İ	minInclusive	0
Used by	Simple Type	U64_define
Source	<pre><xs:simpletype name="uint64_t_define"></xs:simpletype></pre>	

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_t_define int32_t_define Signed 32 bit integer.
Type	int32_t_define
Type hierarchy	xs:integerint32_t_define

$\textbf{Simple Type } \texttt{NATIVE_UINT_TYPE_define}$

Namespace	No namespace
Annotations	native unsigned integer type declaration
Diagram	NATIVE_UINT_TYPE_define
Type	uint32_t_define
Type hierarchy	 xs:integer uint32_t_define NATIVE_UINT_TYPE_define
Facets	maxInclusive 4294967295
	minInclusive 0
Source	<pre><xs:simpletype name="NATIVE_UINT_TYPE_define"></xs:simpletype></pre>

Simple Type I8_define

Namespace	No namespace
Annotations	8-bit signed integer
Diagram	8-bit signed integer Signed 8 bit integer.
Type	int8_t_define
Type hierarchy	 xs:int int8_t_define 18_define
Facets	maxInclusive 127
	minInclusive -128
Source	<pre><xs:simpletype name="I8_define"> <xs:annotation> <xs:documentation>8-bit signed integer</xs:documentation> </xs:annotation> <xs:restriction base="int8_t_define"></xs:restriction> </xs:simpletype></pre>

Simple Type U8_define



Type	uint8_t_define		
Туре	xs:unsignedByte		
hierarchy	• uint8_t_define		
	• U8_define		
Facets	maxInclusive	255	
	minInclusive	0	
Used by	Simple Type	BYTE_define	
Source	<pre><xs:simpletype name="U8_define"></xs:simpletype></pre>		

Simple Type BYTE_define

Namespace	No namespace	
Annotations	byte type	
Diagram	BYTE_define O—	U8_define (8-bit unsigned integer)
Type	U8_define	
Type hierarchy	xs:unsignedByte	
	• uint8_t_define	
	• U8_define	
	BYTE_def	ine
Facets	maxInclusive	255
	minInclusive	0
Source	<pre><xs:annotation <="" <xs:document="" pre="" xs:annotatio<=""></xs:annotation></pre>	ation>byte type n> n base="U8_define"/>

Simple Type I16_define



Simple Type U16_define

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

Annotations	16-bit unsigned integer
Diagram	U16_define
Type	uint16_t_define
Type hierarchy	 xs:int uint16_t_define U16_define
Facets	maxInclusive 65535
	minInclusive 0
Source	<pre><xs:simpletype name="U16_define"></xs:simpletype></pre>

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	 xs:integer int32_t_define 132_define
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 ${\tt U32_define}$



Simple Type 164_define

Namespace	No namespace	
Annotations	64-bit unsigned integer	
Diagram	64-bit unsigned integer (Signed 64 bit integer.)	
Туре	int64_t_define	
Type hierarchy	 xs:integer int64_t_define I64_define 	
Facets	maxInclusive 9223372036854775807	
	minInclusive -9223372036854775808	
Source	<pre><xs:simpletype name="I64_define"></xs:simpletype></pre>	

Simple Type U64_define

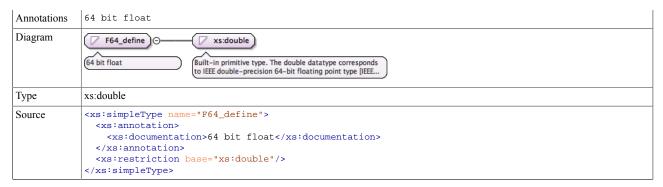
Namespace	No namespace
Annotations	64-bit unsigned integer
Diagram	U64_define ⊙
Туре	uint64_t_define
Type hierarchy	 xs:integer uint64_t_define U64_define
Facets	maxInclusive 18446744073709551615
	minInclusive 0
Source	<pre><xs:simpletype name="U64_define"></xs:simpletype></pre>

Simple Type F32_define



Simple Type F64_define

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



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:documentation>Name of the enum item.</xs:documentation> </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:annotation></xs:attribute></pre>

Attribute enum / @name

Namespace	No namespace	
Annotations	Enum Name.	
Properties	use:	required
Used by	Element	enum
Source	<xs:annotation></xs:annotation>	'name" use="required"> on>Enum Name.

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.	
Туре	xs:string	
Properties	content: simple	
Used by	Element external_arg_def	ñne/arg
Source	<pre><xs:attribute <xs:annotation="" name="comment" type:=""></xs:attribute></pre>	="xs:string"> out the argument.

Attribute type_size_choice_define / @data_type

Namespace	No namespace	
Туре	union of(xs:string, restr	iction of xs:token, restriction of xs:token)
Properties	content:	simple
Used by	Attribute Group	type_size_choice_define
Source	<pre><xs:simplety< td=""><td><pre>erTypes="xs:string"> pe> ction base="xs:token"> eration value="string"/> iction> ype> pe> ction base="xs:token"> eration value="ENUM"/> iction> ype> ype></pre></td></xs:simplety<></pre>	<pre>erTypes="xs:string"> pe> ction base="xs:token"> eration value="string"/> iction> ype> pe> ction base="xs:token"> eration value="ENUM"/> iction> ype> ype></pre>

Attribute type_size_choice_define / @type

Namespace	No namespace	
Type	union of(xs:string, restri	ction of xs:token, restriction of xs:token)
Properties	content:	simple
Used by	Attribute Group	type_size_choice_define
Source	<pre><xs:simpletyp< td=""><th>erTypes="xs:string"> pe> pe> pe> peintion base="xs:token"> peration value="string"/> peiction> ppe> pe> potion base="xs:token"> pre> petion base="xs:token"> pretion value="ENUM"/> peration value="ENUM"/> peration></th></xs:simpletyp<></pre>	erTypes="xs:string"> pe> pe> pe> peintion base="xs:token"> peration value="string"/> peiction> ppe> pe> potion base="xs:token"> pre> petion base="xs:token"> pretion value="ENUM"/> peration value="ENUM"/> peration>

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

Attribute type_size_choice_define / @size

Namespace	No namespace		
Annotations	The size of the argu	ument.	
Type	xs:nonNegativeInteger	xs:nonNegativeInteger	
Properties	content:	simple	
Used by	Attribute Group	type_size_choice_define	
Source	<pre><xs:annotation></xs:annotation></pre>	'size" type="xs:nonNegativeInteger"> on>The size of the argument.	

Attribute event / @name

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

Attribute event / @id

Namespace	No namespace	
Annotations	Event ID.	
Type	id_define	
Properties	use:	required
Facets	pattern	((0?x\d+) \d+)
Used by	Element	event
Source	<pre><xs:attribute name="id" type="id_define" use="required"> <xs:annotation></xs:annotation></xs:attribute></pre>	

Attribute event / @severity

Namespace	No namespace		
Annotations	Severity of event.		
Туре	severity_define		
Properties	use:	required	
Facets	enumeration	COMMAND	
	enumeration	ACTIVITY_LO	
	enumeration	ACTIVITY_HI	
	enumeration	WARNING_LO	
	enumeration	WARNING_HI	
	enumeration	DIAGNOSTIC	
	enumeration	FATAL	
Used by	Element	event	

```
Source
```

Attribute event / @format_string

Namespace	No namespace	
Annotations	Output string that w	will be shown in ground system software.
Properties	use:	required
Used by	Element	event
Source	<pre><xs:attribute name="format_string" use="required"> <xs:annotation> <xs:documentation>Output string that will be shown in ground system software.</xs:documentation> </xs:annotation> </xs:attribute></pre>	

Attribute event / @throttle

Namespace	No namespace			
Annotations	Determines how many	Determines how many of the events are generated before the program stops them.		
Туре	xs:nonNegativeInteger			
Properties	content:	simple		
Used by	Element	event		
Source	<pre><xs:attribute name="throttle" type="xs:nonNegativeInteger"></xs:attribute></pre>			

Attribute events / @event_base

Namespace	No namespace	
Annotations	Base at which ids start from.	
Type	base_code_define	
Properties	content: simple	
Used by	Element events	
Source	<pre><xs:attribute name="event_base" type="base_code_define"> <xs:annotation> <xs:documentation>Base at which ids start from.</xs:documentation> </xs:annotation> </xs:attribute></pre>	

Attribute arg_define / arg / @name

Namespace	No namespace		
Annotations	Name of the argumen	nt.	
Properties	use:	required	
Used by	Element	arg_define/arg	
Source	<pre><xs:attribute name="name" use="required"> <xs:annotation></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:attribute name="pass_by" type="pass_by_define"></xs:attribute></pre>		

Attribute arg_define / arg / @comment

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

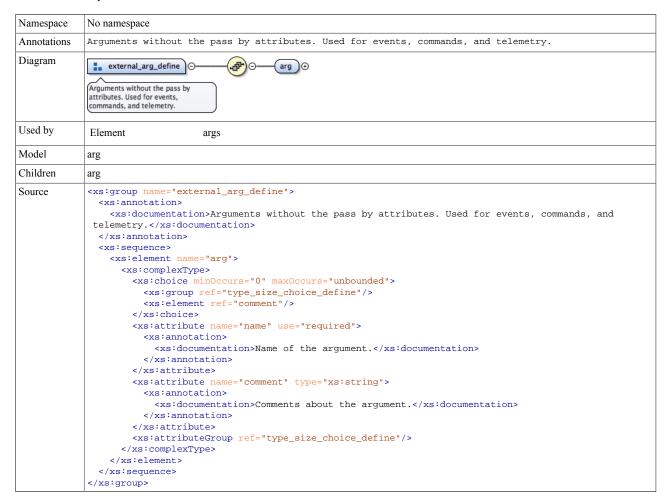
Attribute return / @comment

Namespace	No namespace	
Annotations	Comments about the argument.	
Type	xs:string	

Properties	content:	simple
Used by	Element	return
Source	<pre><xs:attribute name="comment" type="xs:string"> <xs:annotation></xs:annotation></xs:attribute></pre>	

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:group></pre>				

Element Group arg_define

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

```
Annotations
            Arguments with the pass by attribute.
Diagram
            arg_define 🔾
                                          (arg )⊕
            Arguments with the pass by attribute.
Model
            arg
Children
            arg
            <xs:group name="arg_define">
Source
              <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:attribute name="pass_by" type="pass_by_define">
                       <xs:annotation>
                         <xs:documentation>Defines how the arguments are passed.</xs:documentation>
                     <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	a data_type ⊕ a type_size_choice_define b type ⊕ a size ⊕ The size of the argument.					
Used by	Elements arg_define/arg, external_arg_define/arg, return					
Attributes	QName	Туре	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><xs:attributegroup name="type_size_choice_define"> <xs:attribute name="data_type"> <xs:simpletype> <xs:union membertypes="xs:string"> <xs:simpletype> <xs:simpletype> <xs:restriction base="xs:token"> <xs:enumeration value="string"></xs:enumeration> </xs:restriction> </xs:simpletype></xs:simpletype></xs:union></xs:simpletype></xs:attribute></xs:attributegroup></pre>					

```
<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>
```