

# Schema documentation for CDE\_schema.xsd

september 11, 2018

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## Schema(s)

### Main schema CDE\_schema.xsd

## Element(s)

### Element data\_element\_set

Diagram				
Model	name , (description   person   organization   (event*)) , elements			
Instance	<pre> &lt;data_element_set id=" " url=" " &gt;   &lt;name&gt;{1,1}&lt;/name&gt;   &lt;description&gt;{1,1}&lt;/description&gt;   &lt;person&gt;{1,1}&lt;/person&gt;   &lt;organization&gt;{1,1}&lt;/organization&gt;   &lt;event date=" " status=" "&gt;{0,unbounded}&lt;/event&gt;   &lt;elements&gt;{1,1}&lt;/elements&gt; &lt;/data_element_set&gt; </pre>			
Attributes	QName	Type	Use	
	id	restriction of xs:string	required	
		Each set has a unique identifier of the format "RDES[0-9]+"' (e.g., "RDES42") and a textual name.		
	url	xs:anyURI	required	

### Element name

Diagram			
Type	xs:string		
Used by	Elements	data_element_set, element, organization, person, value	

### Element description

Diagram			
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Type	xs:string	
Used by	Element	data_element_set

## Element person

Diagram		
Used by	Elements	data_element_set, image
	Element Group	authors
Model	name , (orcid_id   twitter_handle   url   role)	
Instance	<pre> &lt;person&gt;   &lt;name&gt;{1,1}&lt;/name&gt;   &lt;orcid_id&gt;{1,1}&lt;/orcid_id&gt;   &lt;twitter_handle&gt;{1,1}&lt;/twitter_handle&gt;   &lt;url&gt;{1,1}&lt;/url&gt;   &lt;role&gt;{1,1}&lt;/role&gt; &lt;/person&gt; </pre>	

## Element orcid\_id

Diagram		
Type	xs:string	
Used by	Element	person

## Element twitter\_handle

Diagram		
Type	xs:string	
Used by	Element	person

## Element person / url

Diagram		
Type	xs:string	

## Element person / role

Diagram		
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Type	restriction of xs:token	
Facets	enumeration	author
	enumeration	editor
	enumeration	translator
	enumeration	reviewer
	enumeration	contributor

## Element organization

Diagram		
Used by	Elements	data_element_set, image
	Element Group	authors
Model	name   abbreviation   url   comment   role	
Instance	<pre> &lt;organization&gt;   &lt;name&gt;{1,1}&lt;/name&gt;   &lt;abbreviation&gt;{1,1}&lt;/abbreviation&gt;   &lt;url&gt;{1,1}&lt;/url&gt;   &lt;comment&gt;{1,1}&lt;/comment&gt;   &lt;role&gt;{1,1}&lt;/role&gt; &lt;/organization&gt; </pre>	

## Element abbreviation

Diagram		
Type	xs:string	
Used by	Element	organization

## Element organization / url


Diagram		
Type	xs:anyURI	

## Element comment


Diagram		
Type	xs:string	

Used by	Element	organization
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## Element organization / role

Diagram			
Type	restriction of xs:token		
Facets	enumeration	contributor	
	enumeration	sponsor	
	enumeration	translator	
	enumeration	reviewer	
	enumeration	author	

## Element event

Diagram				
Used by	Element Group history			
Attributes	QName	Type	Use	
	date	xs:date	required	
	status	restriction of xs:token	required	

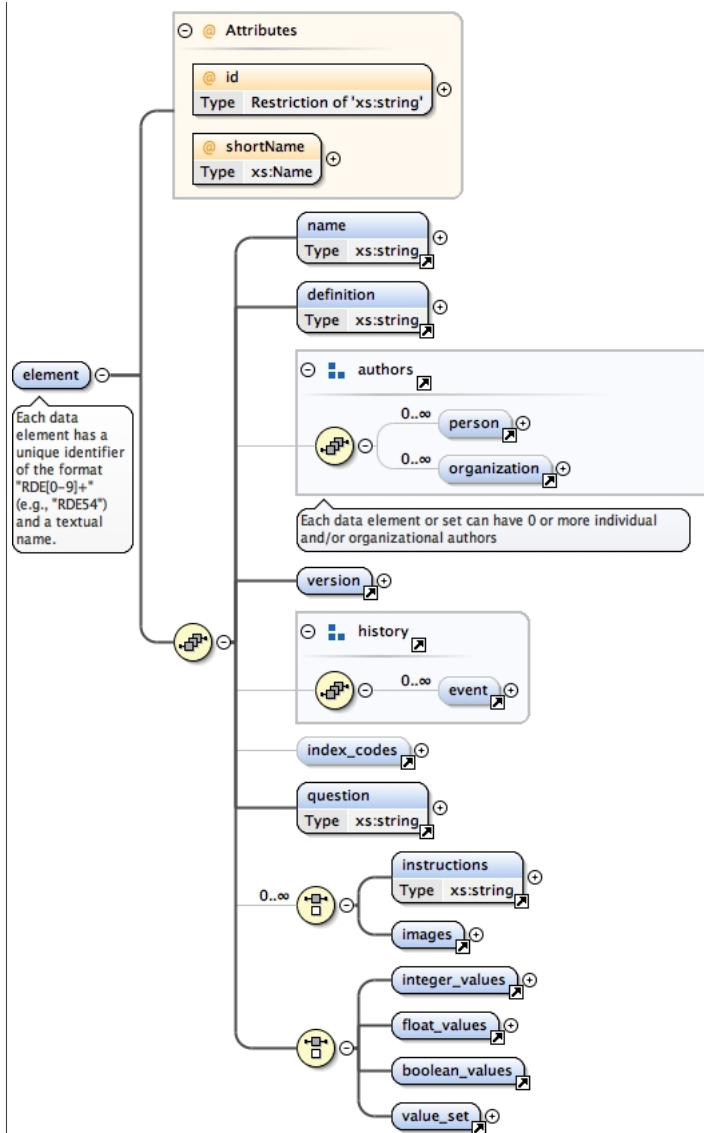
## Element elements

Diagram	
Used by	Element data_element_set
Model	element+
Instance	<pre>&lt;elements&gt;   &lt;element id=" " shortName=" "&gt;{1,unbounded}&lt;/element&gt; &lt;/elements&gt;</pre>

## Element element

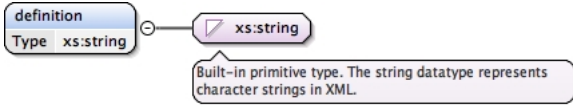
Annotations	Each data element has a unique identifier of the format "RDE[0-9]+'" (e.g., "RDE54") and a textual name.
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Diagram

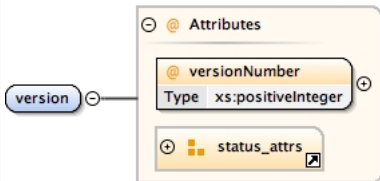


Used by	Element elements			
Model	name , definition , person* , organization* , version , event* , index_codes{0,1} , question , (instructions   images) , (integer_values   float_values   boolean_values   value_set)			
Instance	<pre> &lt;element id=" " shortName=" "   &lt;name&gt;{1,1}&lt;/name&gt;   &lt;definition&gt;{1,1}&lt;/definition&gt;   &lt;person&gt;{0,unbounded}&lt;/person&gt;   &lt;organization&gt;{0,unbounded}&lt;/organization&gt;   &lt;version date=" " status=" " versionNumber=" "&gt;{1,1}&lt;/version&gt;   &lt;event date=" " status=" "&gt;{0,unbounded}&lt;/event&gt;   &lt;index_codes&gt;{0,1}&lt;/index_codes&gt;   &lt;question&gt;{1,1}&lt;/question&gt;   &lt;instructions&gt;{1,1}&lt;/instructions&gt;   &lt;images&gt;{1,1}&lt;/images&gt;   &lt;integer_values max=" " min=" " step=" " unit=" "&gt;{1,1}&lt;/integer_values&gt;   &lt;float_values max=" " min=" " step=" " unit=" "&gt;{1,1}&lt;/float_values&gt;   &lt;boolean_values&gt;{1,1}&lt;/boolean_values&gt;   &lt;value_set&gt;{1,1}&lt;/value_set&gt; &lt;/element&gt; </pre>			
Attributes	QName	Type	Use	
	id	restriction of xs:string	required	
	shortName	xs:Name	required	


## Element definition

Diagram			
Type	xs:string		
Used by	Elements	element, value	

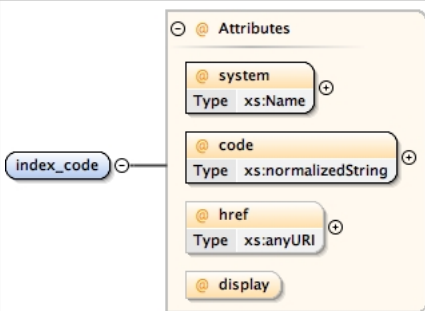
## Element version

Diagram				
Used by	Element	element		
Attributes	<b>QName</b>	<b>Type</b>	<b>Use</b>	
	<b>date</b>	xs:date	required	
	<b>status</b>	restriction of xs:token	required	
	<b>versionNumber</b>	xs:positiveInteger	required	

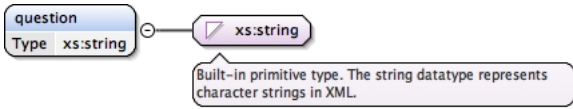
## Element index\_codes

Diagram			
Used by	Elements	element, value	
Model	index_code+		
Instance	<pre>&lt;index_codes&gt;   &lt;index_code code=" " display=" " href=" " system=" "&gt;{1,unbounded}&lt;/index_code&gt; &lt;/index_codes&gt;</pre>		

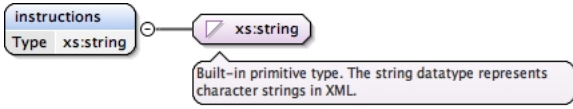
## Element index\_code

Diagram				
Used by	Element	index_codes		
Attributes	<b>QName</b>	<b>Type</b>	<b>Use</b>	
	code	xs:normalizedString	required	
	display		optional	
	href	xs:anyURI	optional	
	system	xs:Name	required	


## Element question

Diagram		
Type	xs:string	
Used by	Element	element

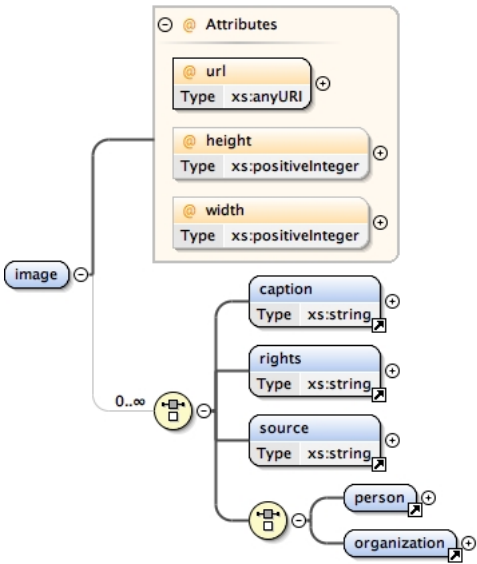
## Element instructions

Diagram		
Type	xs:string	
Used by	Element	element

## Element images

Diagram		
Used by	Elements	element, value
Model	image+	
Instance	<pre>&lt;images&gt;   &lt;image height="" url="" width=""&gt;{1,unbounded}&lt;/image&gt; &lt;/images&gt;</pre>	

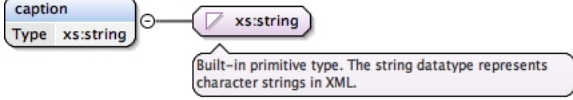
## Element image

Diagram		
Used by	Element	images
Model	caption   rights   source   person   organization	
Instance	<pre>&lt;image height="" url="" width=""&gt;   &lt;caption&gt;{1,1}&lt;/caption&gt;   &lt;rights&gt;{1,1}&lt;/rights&gt;   &lt;source&gt;{1,1}&lt;/source&gt;   &lt;person&gt;{1,1}&lt;/person&gt;   &lt;organization&gt;{1,1}&lt;/organization&gt;</pre>	

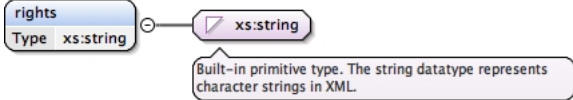


	</image>			
Attributes	<b>QName</b>	<b>Type</b>	<b>Use</b>	
	<b>height</b>	xs:positiveInteger	optional	
	<b>url</b>	xs:anyURI	required	
	<b>width</b>	xs:positiveInteger	optional	

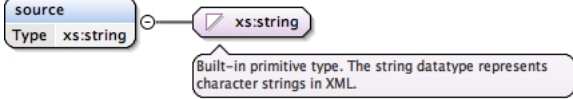
## Element caption

Diagram			
Type	xs:string		
Used by	Element	image	

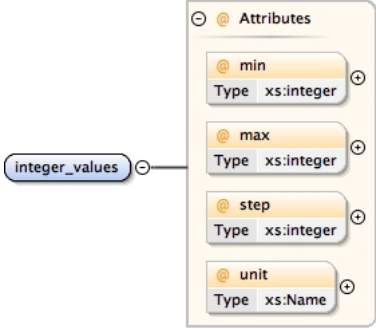
## Element rights

Diagram			
Type	xs:string		
Used by	Element	image	

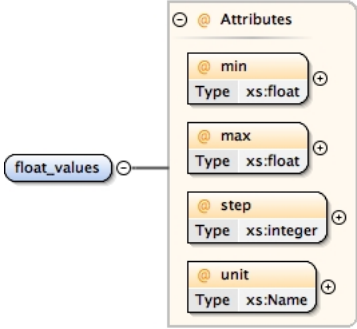
## Element source

Diagram			
Type	xs:string		
Used by	Element	image	

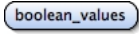
## Element integer\_values

Diagram				
Used by	Element	element		
Attributes	<b>QName</b>	<b>Type</b>	<b>Use</b>	
	<b>max</b>	xs:integer	optional	
	<b>min</b>	xs:integer	optional	
	<b>step</b>	xs:integer	optional	
	<b>unit</b>	xs:Name	optional	


## Element float\_values

Diagram	 <p>The diagram shows the <code>float_values</code> element with four attributes: <code>min</code> (Type <code>xs:float</code>), <code>max</code> (Type <code>xs:float</code>), <code>step</code> (Type <code>xs:integer</code>), and <code>unit</code> (Type <code>xs:Name</code>).</p>			
Used by	Element	element		
Attributes	<b>QName</b>	<b>Type</b>	<b>Use</b>	
	<code>max</code>	<code>xs:float</code>	required	
	<code>min</code>	<code>xs:float</code>	required	
	<code>step</code>	<code>xs:integer</code>	required	
	<code>unit</code>	<code>xs:Name</code>	required	

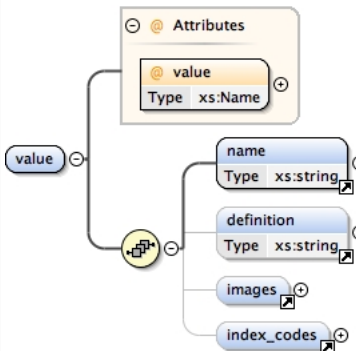
## Element boolean\_values

Diagram	 <p>The diagram shows the <code>boolean_values</code> element.</p>			
Used by	Element	element		

## Element value\_set

Diagram	
Used by	Element element
Model	value+
Instance	<pre>&lt;value_set&gt;   &lt;value value=""&gt;{1,unbounded}&lt;/value&gt; &lt;/value_set&gt;</pre>

## Element value

Diagram	
Used by	Element value_set
Model	name , definition{0,1} , images{0,1} , index_codes{0,1}
Instance	<pre>&lt;value value=""&gt;   &lt;name&gt;{1,1}&lt;/name&gt;   &lt;definition&gt;{0,1}&lt;/definition&gt;   &lt;images&gt;{0,1}&lt;/images&gt;   &lt;index_codes&gt;{0,1}&lt;/index_codes&gt; &lt;/value&gt;</pre>

Attributes	QName	Type	Use	
	value	xs:Name	required	

## Attribute(s)

### Attribute **status\_attrs** / **@date**

Type	xs:date			
Used by	Attribute Group	status_attrs		

### Attribute **status\_attrs** / **@status**

Type	restriction of xs:token			
Facets	enumeration	proposed		
	enumeration	approved		
	enumeration	published		
	enumeration	deprecated		
Used by	Attribute Group	status_attrs		

### Attribute **version** / **@versionNumber**

Type	xs:positiveInteger			
Used by	Element	version		

### Attribute **index\_code** / **@system**

Type	xs:Name			
Used by	Element	index_code		

### Attribute **index\_code** / **@code**

Type	xs:normalizedString			
Used by	Element	index_code		

### Attribute **index\_code** / **@href**

Type	xs:anyURI			
Used by	Element	index_code		

### Attribute **index\_code** / **@display**

Used by	Element	index_code		
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### Attribute **image** / **@url**

Type	xs:anyURI			
Used by	Element	image		

### Attribute **image** / **@height**

Type	xs:positiveInteger			
Used by	Element	image		

### Attribute **image** / **@width**

Type	xs:positiveInteger			
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Used by	Element	image
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**Attribute integer\_values / @min**

Type	xs:integer	
Used by	Element	integer_values

**Attribute integer\_values / @max**

Type	xs:integer	
Used by	Element	integer_values

**Attribute integer\_values / @step**

Type	xs:integer	
Used by	Element	integer_values

**Attribute integer\_values / @unit**

Type	xs:Name	
Used by	Element	integer_values

**Attribute float\_values / @min**

Type	xs:float	
Used by	Element	float_values

**Attribute float\_values / @max**

Type	xs:float	
Used by	Element	float_values

**Attribute float\_values / @step**

Type	xs:integer	
Used by	Element	float_values

**Attribute float\_values / @unit**

Type	xs:Name	
Used by	Element	float_values

**Attribute value / @value**

Type	xs:Name	
Used by	Element	value

**Attribute element / @id**

Type	restriction of xs:string	
Facets	pattern	RDE\d+
Used by	Element	element

**Attribute element / @shortName**

Type	xs:Name	
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Used by	Element	element
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## Attribute data\_element\_set / @id


Annotations	Each set has a unique identifier of the format "RDES[0-9]+" (e.g., "RDES42") and a textual name.	
Type	restriction of xs:string	
Facets	pattern	RDES\d+
Used by	Element	data_element_set

## Attribute data\_element\_set / @url

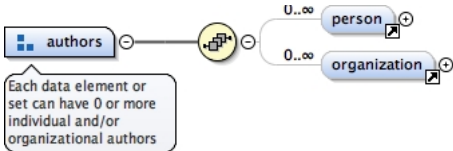
Type	xs:anyURI	
Used by	Element	data_element_set

## Element Group(s)

### Element Group history

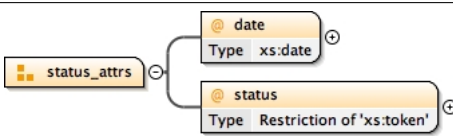
Diagram		
Used by	Elements	data_element_set, element
Model	event*	

### Element Group authors

Annotations	Each data element or set can have 0 or more individual and/or organizational authors	
Diagram		
Used by	Element	element
Model	person*, organization*	

## Attribute Group(s)

### Attribute Group status\_attrs

Diagram				
Used by	Elements	event, version		
Attributes	QName	Type	Use	
	date	xs:date	required	
	status	restriction of xs:token	required	