# Schema documentation for CDE\_schema.xsd

december 30, 2019

# **Table of Contents**

	chema CDE_schema.xsd	
ent(s)		2
Elemen	t data_element_set	. 2
Elemen	tdata_element_set / id	2
	t name	
	t description	
	t version	
	t date	
	t status	
	tdata_element_set / url	
	tindex_codes	
	t index_code	
	tindex_code / system	
	tindex_code / system tindex_code / code	
	tindex_code / href	
	t display	
	t modality	
	t modality / system	
	t modality / code	
	tmodality / href	
	t biological_sex	
	t age_range	
	t upper_bound	
	t lower_bound	
Elemen	t person	. 7
	t orcid_id	
	t twitter_handle	
	tperson / urlt	
Elemen	t person / role	7
Elemen	torganizationtorganization	. 8
Elemen	torganization / abbreviation	8
Elemen	torganization / url	8
Elemen	t comment	. 8
Elemen	torganization / role	. 8
Elemen	t event	. 9
	t specialty	
Elemen	t specialty / abbreviation	. 9
	telements	
	telement	
	t element / id	
	t definition	
	t integer_values	
	tinteger_values / min	
	tinteger_values / max	
	t step	
	tunit	
	t float_values	
	tfloat_values / min	
	tfloat_values / mintfloat_values / max	
	_	
	t boolean_values	
	t value_set	
	t min_cardinality	
	t max_cardinality	
	t value_set / value	
	tvalue_set / value / value	
	timages	
	timage	
	timage / url	
	t height	
	t width	
	t caption	
Elemen	trights	15

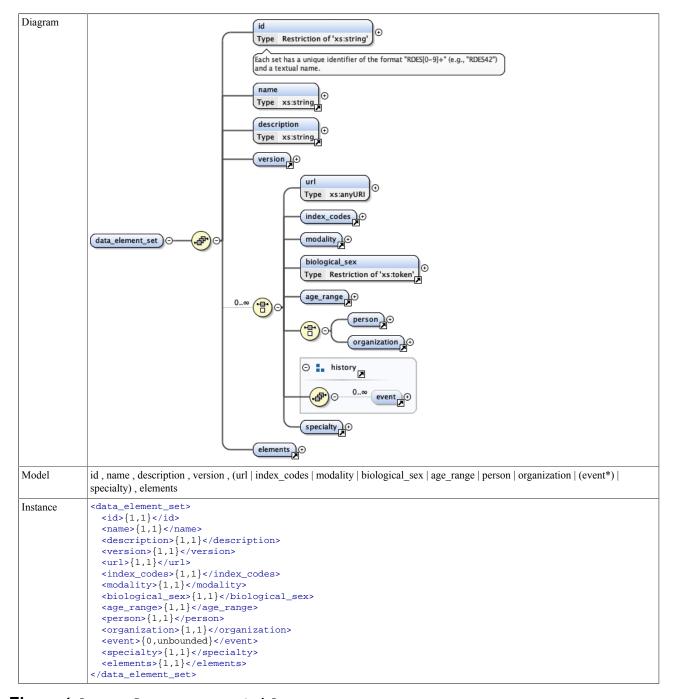
Element source	15
Element Group(s)	16
Element Group status_attrs	
Element Group history	16
Element Group authors	

### Schema(s)

#### Main schema CDE\_schema.xsd

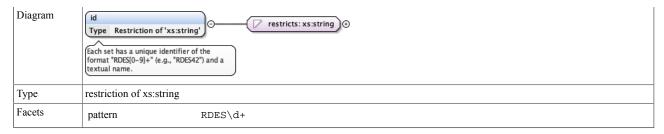
### Element(s)

#### Element data\_element\_set



### Element data\_element\_set / id

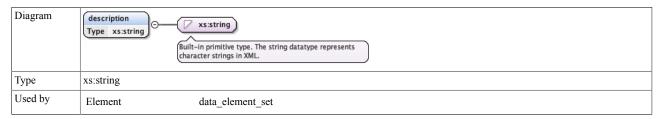
```
Annotations | Each set has a unique identifier of the format "RDES[0-9]+" (e.g., "RDES42") and a textual name.
```



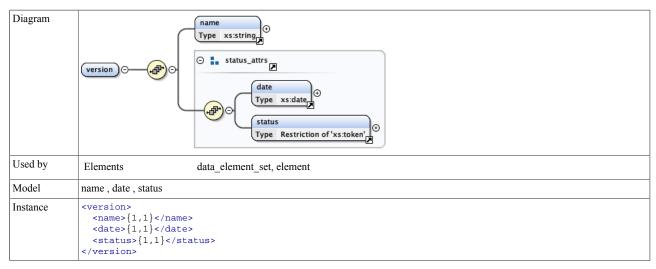
#### Element name

Diagram	Type xs:string  Built-in primitive type. The string datatype represents character strings in XML.
Type	xs:string
Used by	Elements data_element_set, element, organization, person, specialty, value_set/value, version

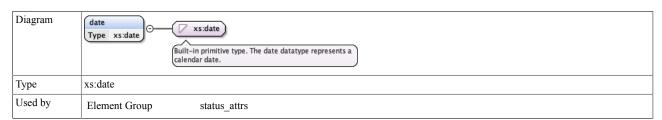
#### Element description



#### Element version



### Element date



#### Element status

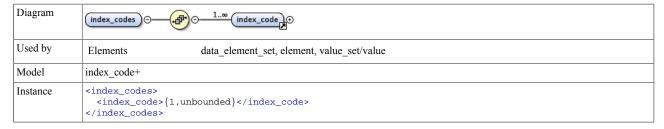


Facets	enumeration	proposed
	enumeration	published
	enumeration	retired
Used by	Element Group	status_attrs

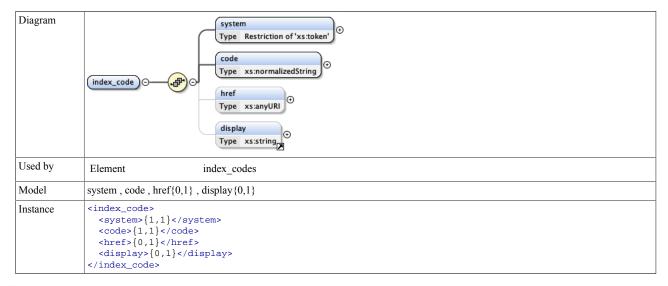
### Element data\_element\_set / url

Diagram	Type xs:anyURI  Built-in primitive type. The anyURI datatype represents a Uniform Resource Identifier Reference (URI).
Type xs:anyURI	xs:anyURI

#### Element index\_codes



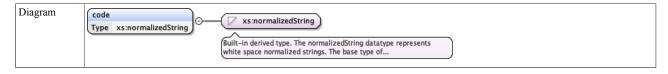
### Element index\_code



### Element index\_code / system

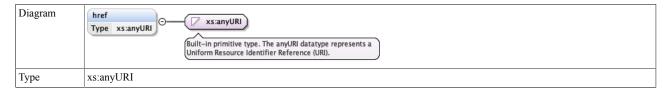


#### Element index\_code / code

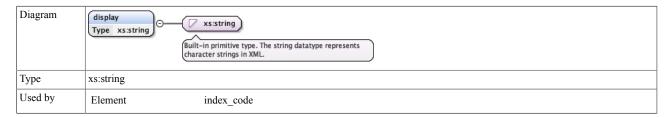


Type xs:normalizedString

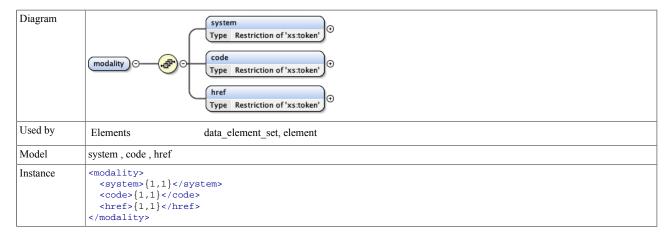
#### Element index\_code / href



### Element display



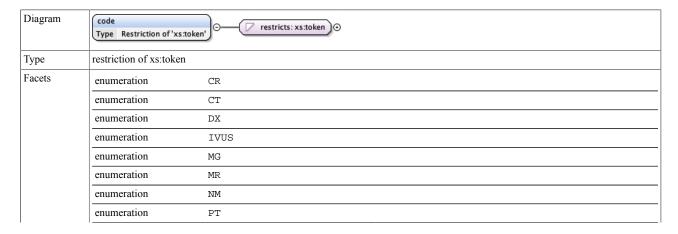
#### Element modality



### Element modality / system

Diagram	System Type Restriction of 'xs:toke	n' ○ restricts: xs:token ) ⊙
Type	restriction of xs:token	
Facets	enumeration	DICOM

### Element modality / code



enumeration	RF	
enumeration	RG	
enumeration	US	
enumeration	XA	

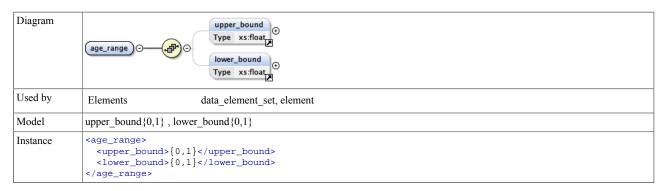
### Element modality / href

Diagram	href	
Type	restriction of xs:tok	en
Facets	enumeration	<pre>http://dicom.nema.org/ medical/dicom/ current/output/html/ part03.html#sect_C.7.3.1.1.1</pre>

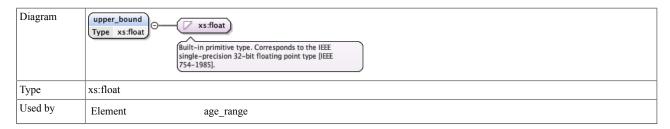
### Element biological\_sex

Diagram	biological_sex       Type Restriction of 'xs:token'    or restricts: xs:token  or restricts: xs:token		
Type	restriction of xs:token		
Facets	enumeration	М	
	enumeration	F	
Used by	Elements	data_element_set, element	

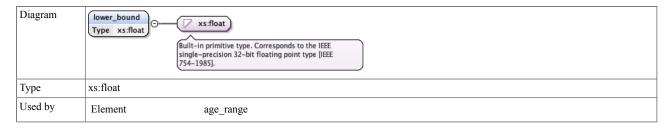
### Element age\_range



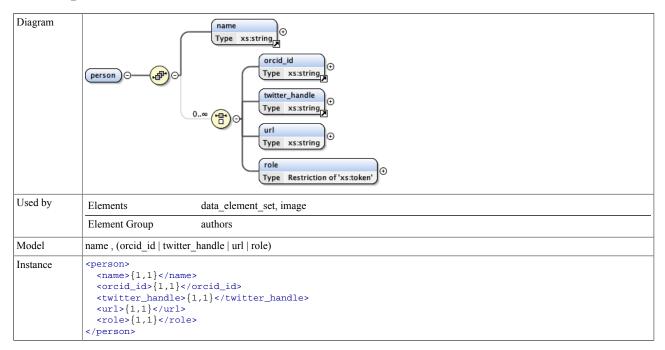
### Element upper\_bound



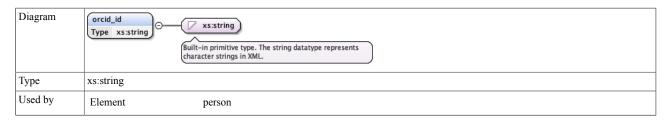
#### Element lower\_bound



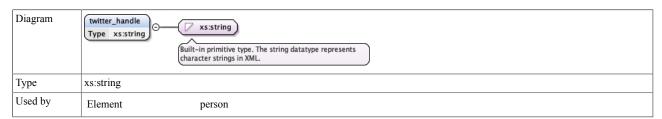
### Element person



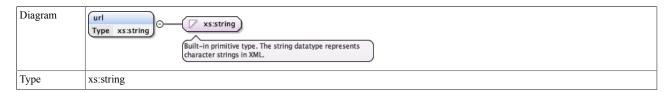
### Element orcid\_id



### Element twitter\_handle



#### Element person / url

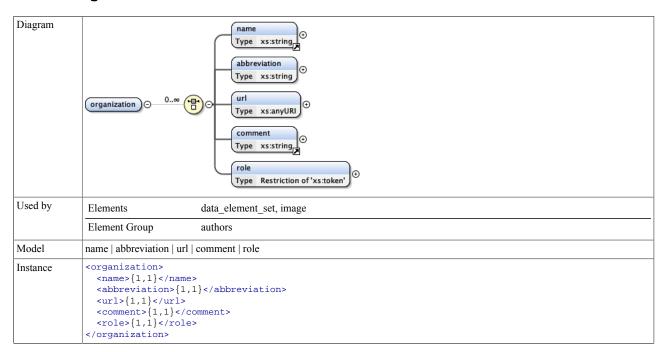


### Element person / role

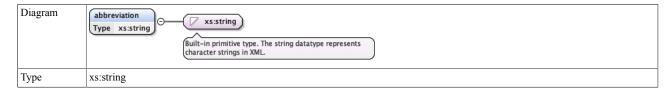
Diagram	Type Restriction of 'xs:token' ○ restricts: xs:token ⊙	
Type	restriction of xs:token	
Facets	enumeration	author
	enumeration	editor
	enumeration	translator

enumeration	reviewer
enumeration	contributor

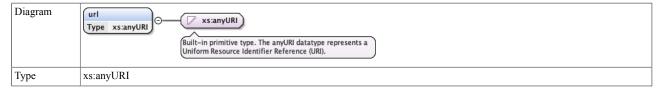
### Element organization



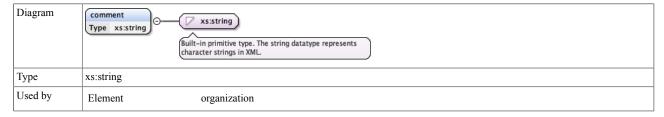
### Element organization / abbreviation



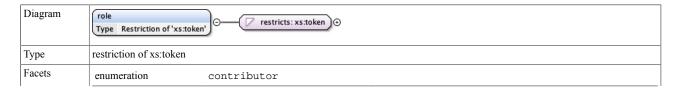
### Element organization / url



#### Element comment

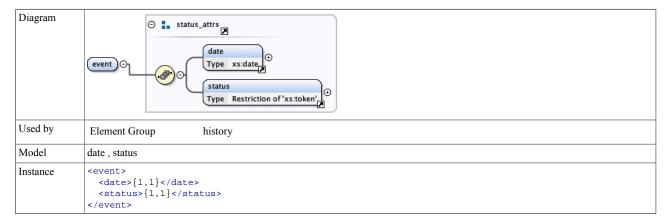


### Element organization / role

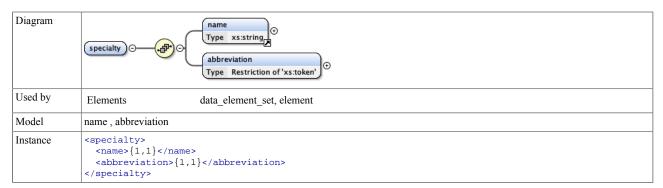


enumeration	sponsor
enumeration	translator
enumeration	reviewer
enumeration	author

### Element event



### Element specialty

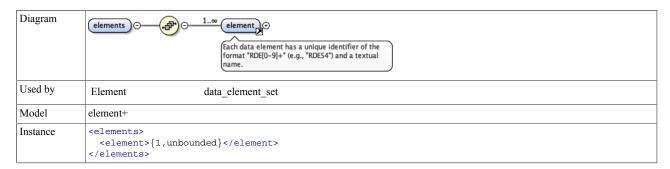


### Element specialty / abbreviation

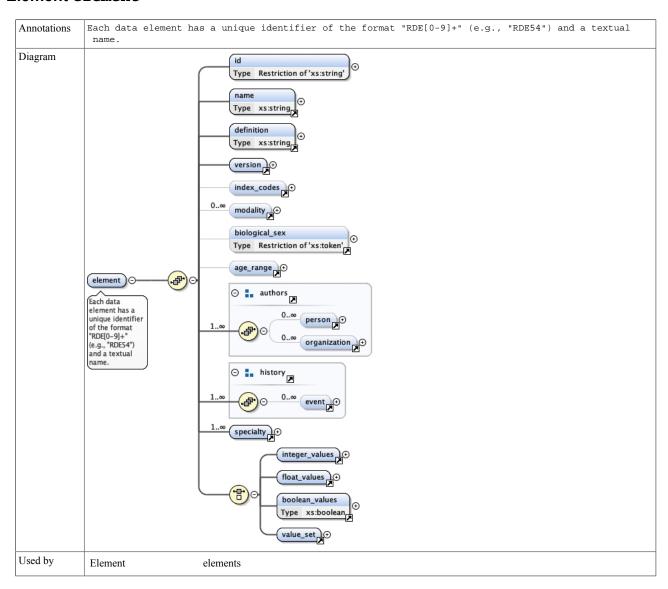
Diagram	abbreviation Type Restriction of 's	token'  restricts: xs:token  •
Туре	restriction of xs:tok	1
Facets	enumeration	AB
	enumeration	BR
	enumeration	CA
	enumeration	СН
	enumeration	CT
	enumeration	ER
	enumeration	GI
	enumeration	GU
	enumeration	HN
	enumeration	IR
	enumeration	MI
	enumeration	MK
	enumeration	MR
	enumeration	NM
	enumeration	NR
	enumeration	OB

	enumeration	OI
	enumeration	OT
	enumeration	PD
	enumeration	QI
	enumeration	RS
	enumeration	US
	enumeration	VI

#### Element elements



### Element element

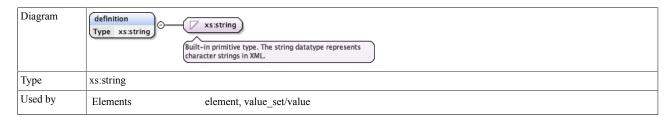


```
Model
             id, name, definition, version, index_codes {0,1}, modality*, biological_sex {0,1}, age_range {0,1}, person*, organization*,
             event*, specialty+, (integer_values | float_values | boolean_values | value_set)
             <element>
Instance
               <id>{1,1}</id>
               <name>{1,1}</name>
               <definition>{1,1}</definition>
               <version>{1,1}
               <index_codes>{0,1}</index_codes>
               <modality>{0,unbounded}</modality>
               <biological_sex>{0,1}</biological_sex>
               <age_range>{0,1}</age_range>
               <person>{0,unbounded}</person>
               <organization>{0,unbounded}</organization>
               <event>{0,unbounded}</event>
               <specialty>{1,unbounded}</specialty>
               <integer_values>{1,1}</integer_values>
               <float_values>{1,1}</float_values>
               <boolean_values>{1,1}/boolean_values>
               <value_set>{1,1}</value_set>
             </element>
```

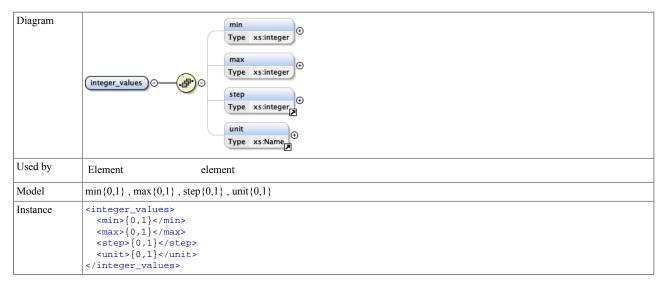
#### Element element / id

Diagram	id Type Restriction of 'xs:strin	$g'$ $\bigcirc$ restricts: xs:string $\bigcirc$	
Type	restriction of xs:string		
Facets	pattern	RDE\d+	

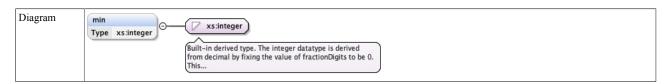
#### Element definition



#### Element integer\_values

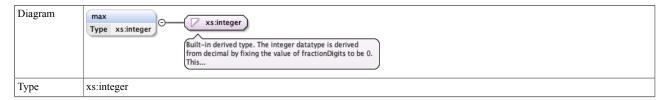


### Element integer\_values / min

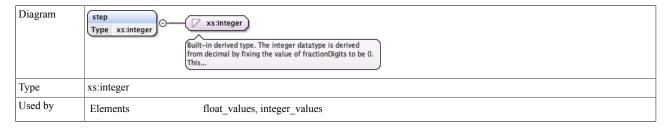


Type xs:integer

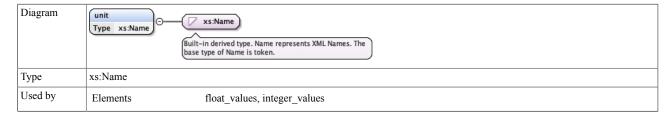
### Element integer\_values / max



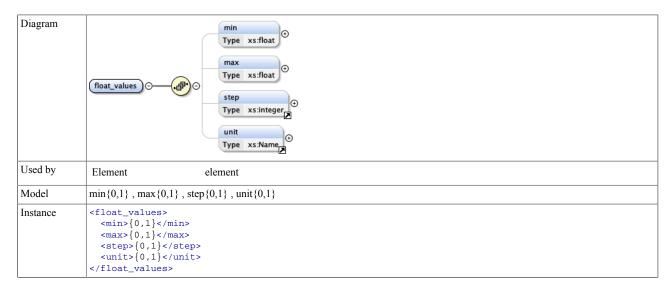
### Element step



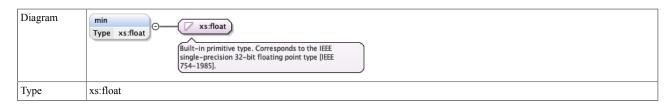
#### Element unit



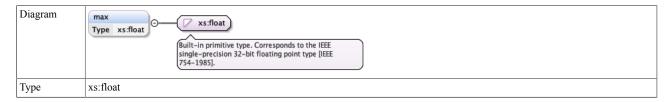
### Element float\_values



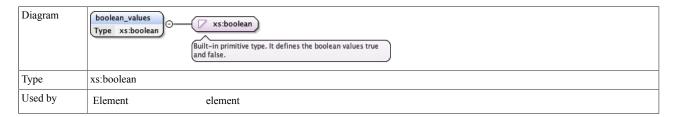
### Element float\_values / min



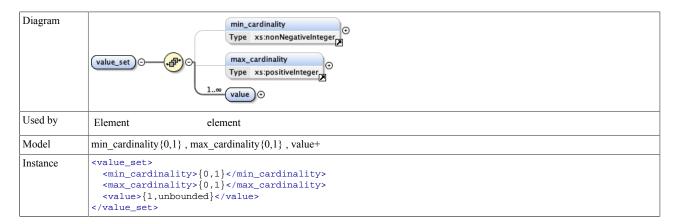
### Element float\_values / max



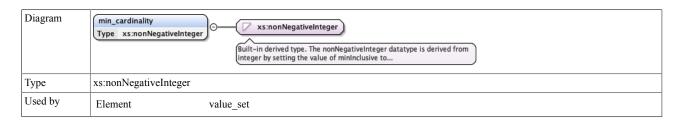
#### Element boolean\_values



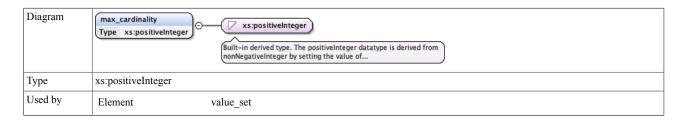
#### Element value\_set



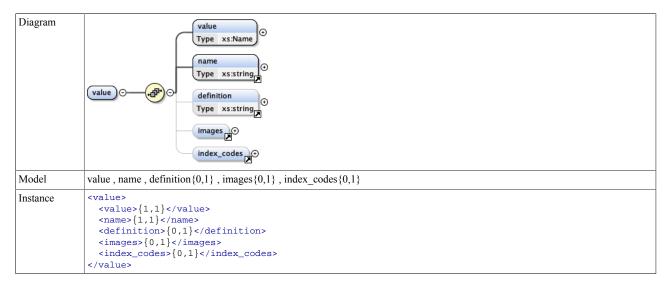
### Element min\_cardinality



### Element max\_cardinality



### Element value\_set / value



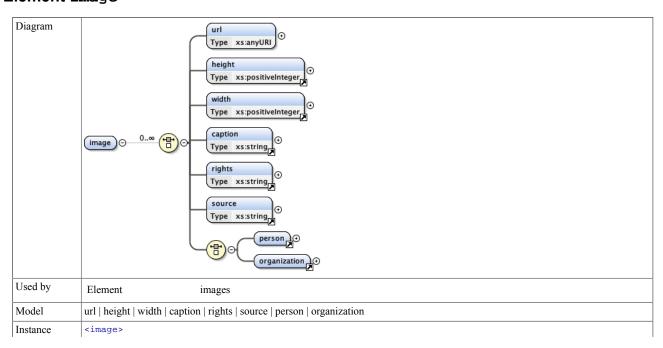
### Element value\_set / value / value



### Element images

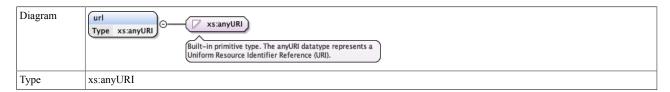


### Element image

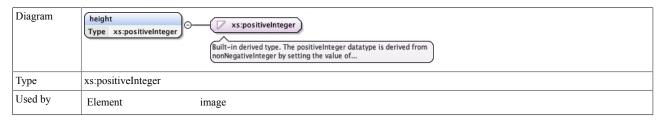


```
<url>{1,1}</url>
<height>{1,1}</height>
<width>{1,1}</width>
<caption>{1,1}</caption>
<rights>{1,1}</rights>
<source>{1,1}</source>
<person>{1,1}</person>
<organization>{1,1}</organization>
</image>
```

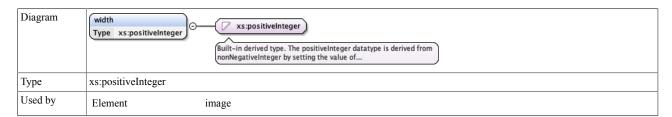
### Element image / url



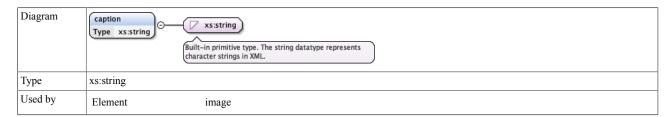
### Element height



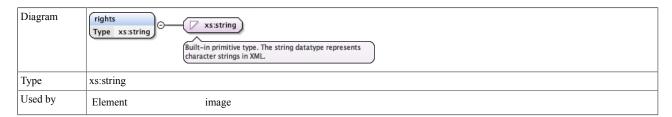
#### Element width



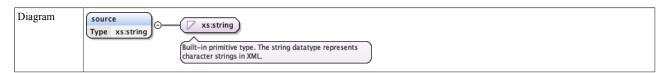
### Element caption



### Element rights



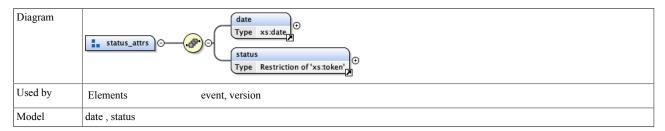
#### **Element source**



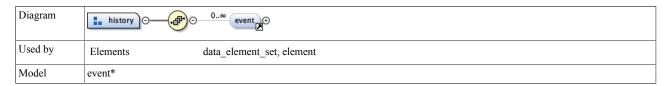
Type	xs:string		
Used by	Element	image	

## **Element Group(s)**

### Element Group status\_attrs



### Element Group history



### **Element Group authors**

