Schema documentation for ana.xsd

september 11, 2012

Table of Contents

Resource hierarchy:	
Namespace: "http://www.ime.iiasa.ac.at/model/analysis"	1
Schema(s)	
Main schema ana.xsd	
Complex Type(s)	. :
Complex Type a:analysis	. :
Complex Type a:preference	. :
Complex Type a:task	. :
Simple Type(s)	. :
Simple Type a:preferenceType	. :
Namespace: "http://www.ime.iiasa.ac.at/model/instance"	
Schema(s)	. '
Imported schema data.xsd	. '
Element(s)	
Element i:dataSet	. '
Complex Type(s)	. '
Complex Type i:modelData	. •
Complex Type i:modelInstance	. :
Complex Type i:memberDic	. :
Complex Type i:tupleValue	. :
Complex Type i:setMembers	. (
Complex Type i:tupleMembers	
Complex Type i:entityValues	. (
Complex Type i:tupleValues	. 1
Namespace: "http://www.ime.iiasa.ac.at/model/spec"	. 7
Schema(s)	
Imported schema sms.xsd	
Simple Type(s)	. 1
Simple Type m:shortName	. ′
Simple Type m:name	. ′
Simple Type m:description	. :
Simple Type m:status	
Simple Type m:setSpecType	. :
Simple Type m:entityRole	. '
Simple Type m:mathType	. !
Complex Type(s)	1
Complex Type m:modelSpec	
Complex Type m:setSpec	
Complex Type m:iteratorContainer	
Complex Type m:entitySpec	1

Resource hierarchy:



Namespace: "http://www.ime.iiasa.ac.at/model/analysis"

Schema(s)

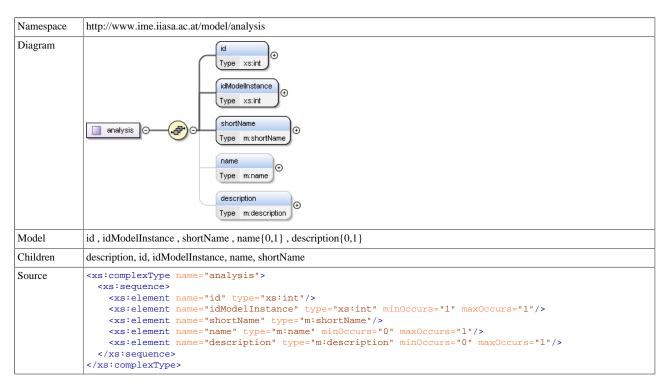
Main schema ana.xsd

Namespace	http://www.ime.iiasa.ac.at/model/analysis
-----------	---

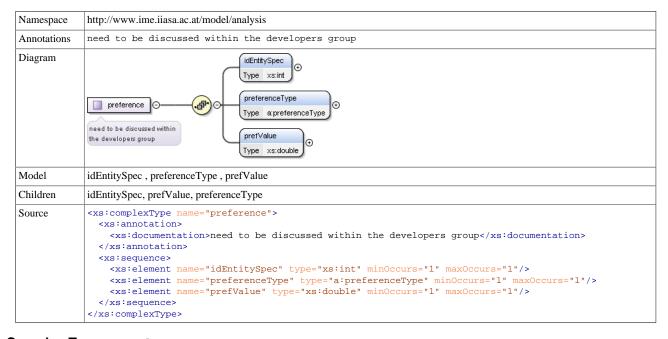
Properties	attribute form default:	unqualified
	element form default:	unqualified

Complex Type(s)

Complex Type a:analysis

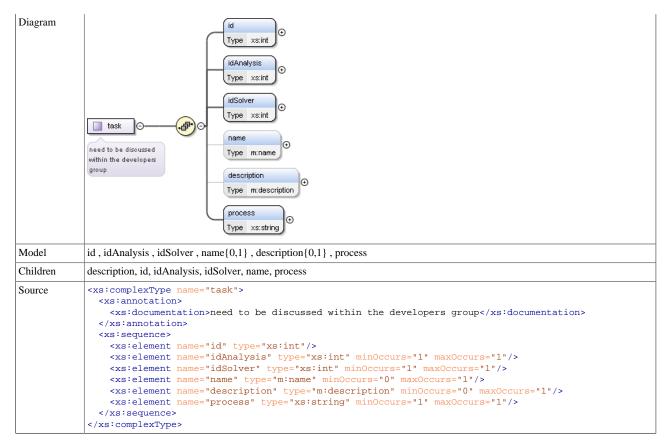


Complex Type a:preference



Complex Type a:task

Namespace	http://www.ime.iiasa.ac.at/model/analysis	
Annotation	need to be discussed within the developers group	



Simple Type(s)

Simple Type a:preferenceType

Namespace	http://www.ime.iiasa.ac.at/model/analysis		
Annotations	need to be discussed within the developers group		
Diagram	preferenceType O	Built-in primitive type. The string datatype represents character strings in XML.	
Туре	restriction of xs:string		
Facets	enumeration	MIN	
enumeration MAX		MAX	
	enumeration	LOWER_BND	
	enumeration	UPPER_BND	
Used by	Element	a:preference/preferenceType	
Source	<pre> <xs:simpletype name="preferenceType"></xs:simpletype></pre>		

Namespace: "http://www.ime.iiasa.ac.at/model/instance"

Schema(s)

Imported schema data.xsd

Namespace	http://www.ime.iiasa.ac.a	http://www.ime.iiasa.ac.at/model/instance		
Properties	attribute form default:	unqualified		
	element form default:	unqualified		

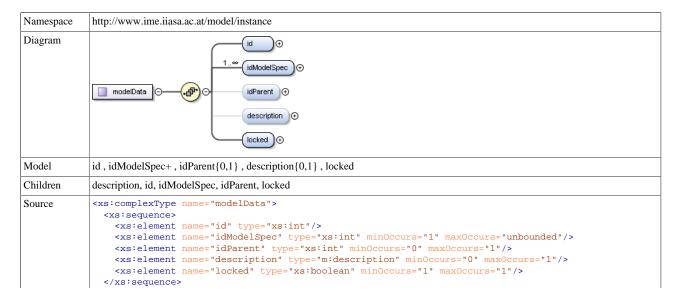
Element(s)

Element i:dataSet

Namespace	http://www.ime.iiasa.ac.at/model/instance		
Annotations	only for mockup		
Diagram	dataSet ○ 1∞ (setMembers) ⊙ 1∞ (entityValues) ⊙ only for mockup		
Properties	content: complex		
Model	setMembers+, entityValues+		
Children	entityValues, setMembers		
Instance	<pre><i:dataset xmlns:i="http://www.ime.iiasa.ac.at/model/instance"></i:dataset></pre>		
Source	<pre><xs:element name="dataSet"></xs:element></pre>		

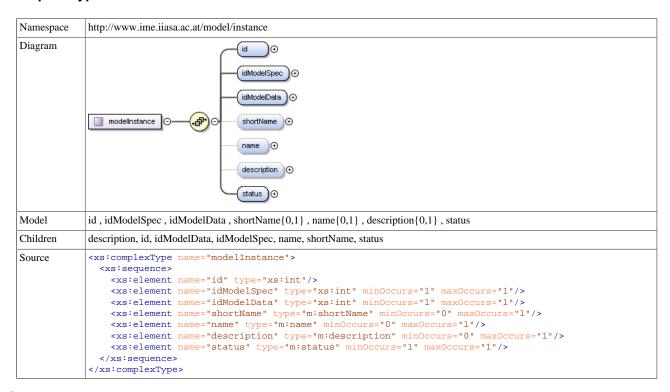
Complex Type(s)

Complex Type i:modelData

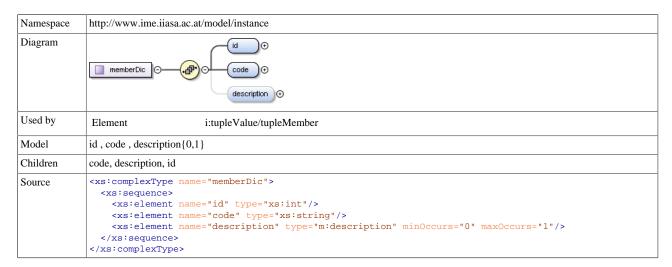


</xs:complexType>

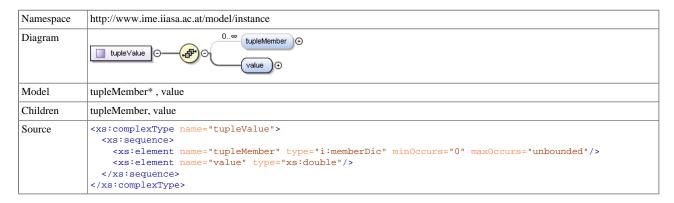
Complex Type i:modelInstance



Complex Type i:memberDic



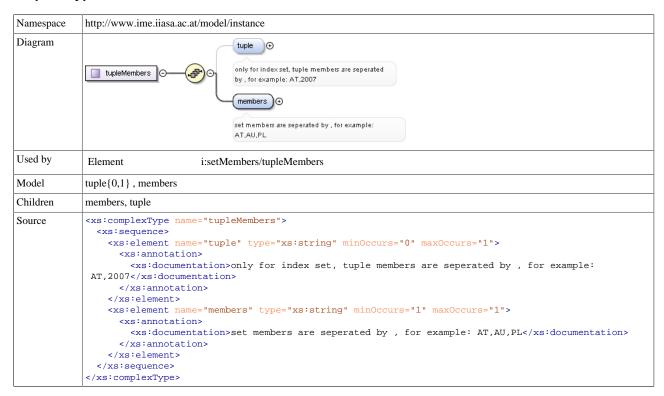
Complex Type i:tupleValue



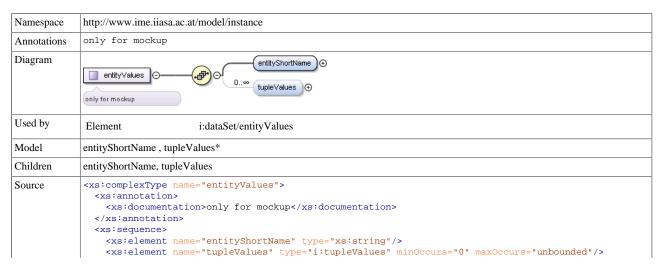
Complex Type i:setMembers

Namespace	http://www.ime.iiasa.ac.at/model/instance	
Diagram	setMembers ○	
Used by	Element i:dataSet/setMembers	
Model	setShortName , tupleMembers*	
Children	setShortName, tupleMembers	
Source	<pre><xs:complextype name="setMembers"></xs:complextype></pre>	

Complex Type i:tupleMembers



Complex Type i:entityValues



```
</xs:sequence>
</xs:complexType>
```

Complex Type i:tupleValues

Namespace	http://www.ime.iiasa.ac.at/model/instance		
Annotations	only for mockup		
Diagram	tuple tuple tuple tuple walues only for mockup tuple tuple members are seperated by , for example: AT.2007 value value value		
Used by	Element i:entityValues/tupleValues		
Model	tuple{0,1}, value		
Children	tuple, value		
Source	<pre>tuple, value <xs:complextype name="tupleValues"></xs:complextype></pre>		

Namespace: "http://www.ime.iiasa.ac.at/model/spec"

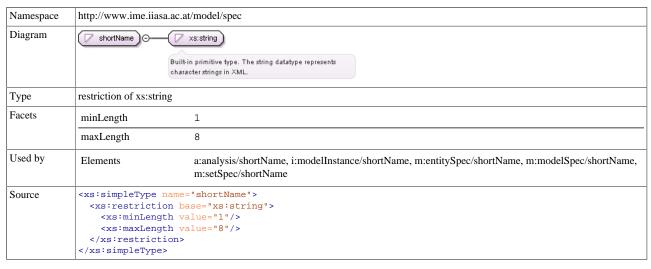
Schema(s)

Imported schema sms.xsd

Namespace	http://www.ime.iiasa.ac.at/model/spec
Properties	attribute form default: unqualified
	element form default: unqualified

Simple Type(s)

Simple Type m: shortName



Simple Type m:name

Namespace	http://www.ime.iiasa.ac.at/model/spec
-----------	---------------------------------------

Diagram		xs:string uilt-in primitive type. The string datatype represents haracter strings in XML.
Type	restriction of xs:string	
Facets	minLength	1
	maxLength	32
Used by	Elements	a:analysis/name, a:task/name, i:modelInstance/name, m:entitySpec/name, m:modelSpec/name, m:setSpec/name
Source	<pre><xs:simpletype name="name"> <xs:restriction base="xs:string"> <xs:minlength value="1"></xs:minlength> <xs:maxlength value="32"></xs:maxlength> </xs:restriction> </xs:simpletype></pre>	

Simple Type m:description

Namespace	http://www.ime.iiasa.ac.at/model/spec		
Diagram	Ø description ⊙	Built-in primitive type. The string datatype represents character strings in XML.	
Туре	restriction of xs:string		
Facets	minLength	1	
	maxLength	512	
Used by	Elements	a:analysis/description, a:task/description, i:memberDic/description, i:modelData/description, i:modelInstance/description, m:entitySpec/description, m:modelSpec/description, m:setSpec/description	
Source	<pre><xs:simpletype name="description"> <xs:restriction base="xs:string"> <xs:minlength value="1"></xs:minlength> <xs:maxlength value="512"></xs:maxlength> </xs:restriction> </xs:simpletype></pre>		

Simple Type m: status



Simple Type m:setSpecType



Type	restriction of xs:stri	restriction of xs:string		
Facets	enumeration	COLLECTION		
	enumeration	SEQUENCE		
Used by	Element	m:setSpec/type		
Source	<pre><xs:simpletype name="setSpecType"> <xs:restriction base="xs:string"> <xs:enumeration value="COLLECTION"></xs:enumeration> <xs:enumeration value="SEQUENCE"></xs:enumeration> </xs:restriction> </xs:simpletype></pre>			

Simple Type m:entityRole



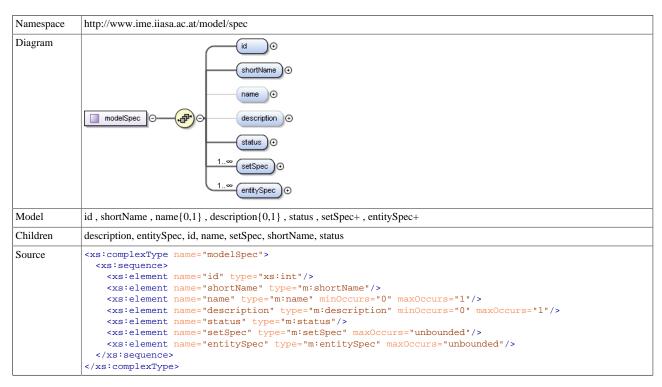
Simple Type m:mathType



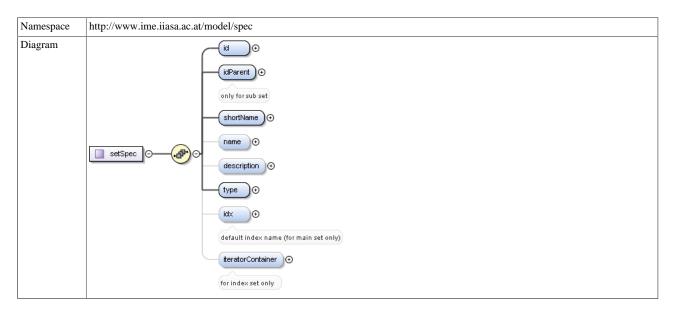
Facets	enumeration	INTEGER	
	enumeration	BINARY	
	enumeration	REAL	
Used by	Element	m:entitySpec/mathType	
Source	<pre><xs:simpletype name="mathType"> <xs:restriction base="xs:string"> <xs:enumeration value="INTEGER"></xs:enumeration> <xs:enumeration value="BINARY"></xs:enumeration> <xs:enumeration value="REAL"></xs:enumeration> </xs:restriction> </xs:simpletype></pre>		

Complex Type(s)

Complex Type m:modelSpec

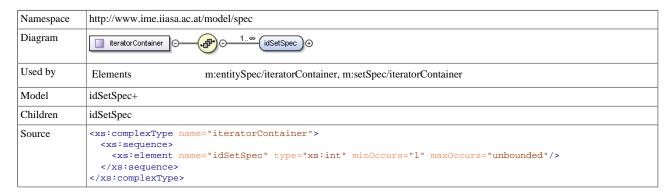


Complex Type m: setSpec



```
Used by
             Element
                                  m:modelSpec/setSpec
Model
             id, idParent, shortName, name{0,1}, description{0,1}, type, idx{0,1}, iteratorContainer{0,1}
Children
             description, id, idParent, idx, iteratorContainer, name, shortName, type
Source
             <xs:complexType name="setSpec">
               <xs:sequence>
                 <xs:element name="id" type="xs:int"/>
                 <xs:element name="idParent" type="xs:int">
                   <xs:annotation>
                     <xs:documentation>only for sub set</xs:documentation>
                   </xs:annotation>
                 </xs:element>
                 <xs:element name="shortName" type="m:shortName"/>
                 <xs:element name="name" type="m:name" minOccurs="0" maxOccurs="1"/>
                 <xs:element name="description" type="m:description" minOccurs="0" maxOccurs="1"/>
                 <xs:element name="type" type="m:setSpecType"/>
                 <xs:element name="idx" type="xs:string" minOccurs="0" maxOccurs="1">
                  <xs:annotation>
                     <xs:documentation>default index name (for main set only)</xs:documentation>
                   </xs:annotation>
                 </xs:element>
                 <xs:element name="iteratorContainer" type="m:iteratorContainer" minOccurs="0" maxOccurs="1">
                   <xs:annotation>
                     <xs:documentation>for index set only</xs:documentation>
                   </xs:annotation>
                 </xs:element>
               </xs:sequence>
             </xs:complexType>
```

Complex Type m:iteratorContainer



Complex Type m:entitySpec

Namespace	http://www.ime.iiasa.ac.at/model/spec
-----------	---------------------------------------

