Schema documentation for ana.xsd

september 11, 2012

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Resource hierarchy:



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

Schema(s)

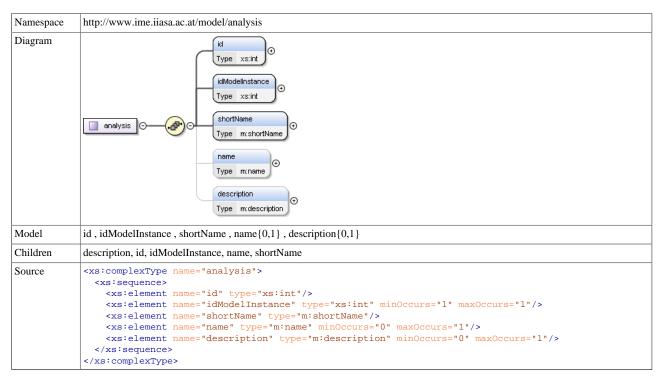
Main schema ana.xsd

Namespace	http://www.ime.iiasa.ac.at/model/analysis	
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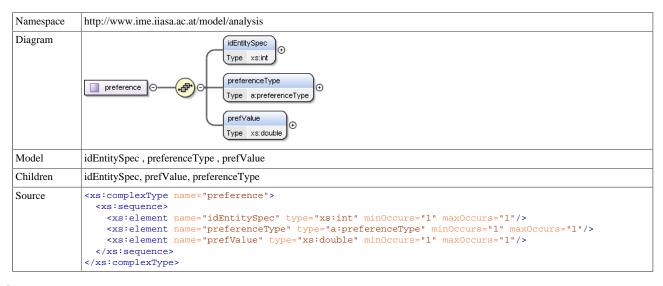
Prope	erties	attribute form default:	unqualified
		element form default:	unqualified

Complex Type(s)

Complex Type a:analysis

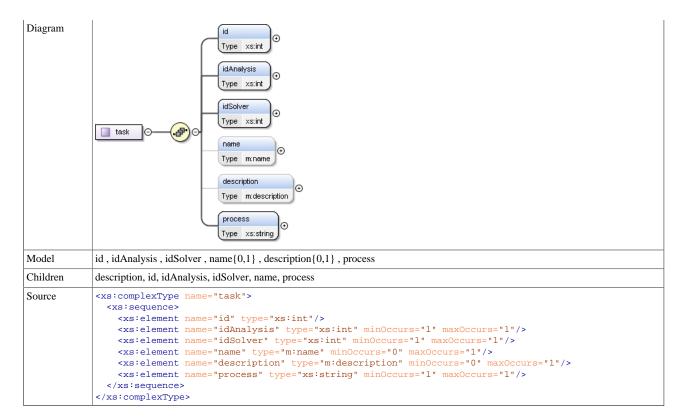


Complex Type a:preference



Complex Type a:task

Namespace	http://www.ime.iiasa.ac.at/model/analysis
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Simple Type(s)

Simple Type a:preferenceType

Namespace	http://www.ime.iiasa.ac	at/model/analysis
Diagram	preferenceType 🔾	Built-in primitive type. The string datatype represents character strings in XML.
Туре	restriction of xs:string	
Facets	enumeration	MIN
	enumeration	MAX
	enumeration	LOWER_BND
	enumeration	UPPER_BND
Used by	Element	a:preference/preferenceType
Source	<pre><xs:restriction td="" <=""><td>e="preferenceType"> pase="xs:string"> pase="MIN"/> pase="MAX"/> pase="MAX"/> pase="MAX"/> pase="LOWER_BND"/> pase="UPPER_BND"/></td></xs:restriction></pre>	e="preferenceType"> pase="xs:string"> pase="MIN"/> pase="MAX"/> pase="MAX"/> pase="MAX"/> pase="LOWER_BND"/> pase="UPPER_BND"/>

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

Schema(s)

Imported schema data.xsd

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

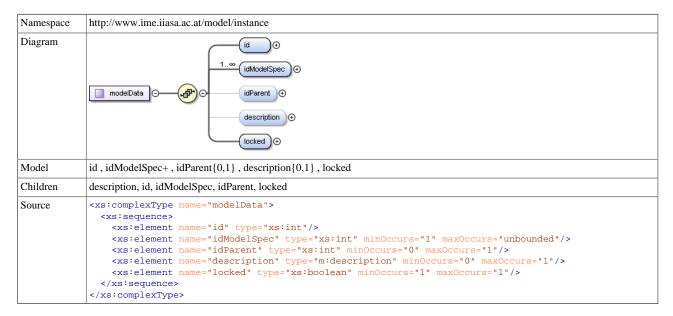
Element(s)

Element i:dataSet

Namespace	http://www.ime.iiasa.ac.at/model/instance		
Annotations	only for mockup		
Diagram	only for mockup 1∞ (setMembers) ⊕ 1∞ (entityValues) ⊕		
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>		

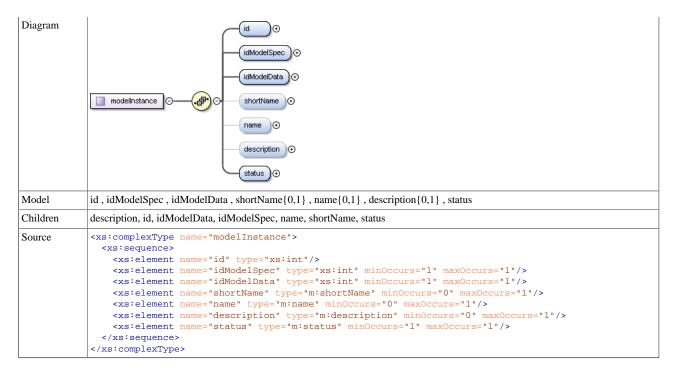
Complex Type(s)

Complex Type i:modelData

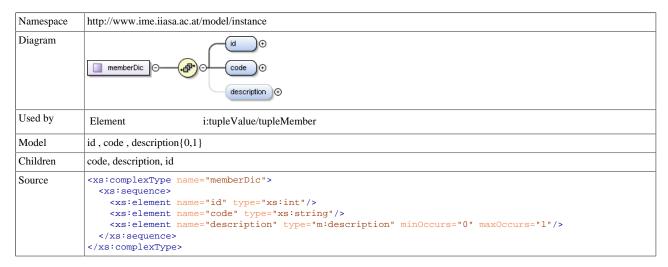


Complex Type i:modelInstance

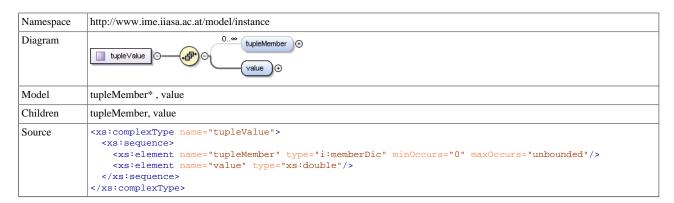
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Namespace http://www.ime.iiasa.ac.at/model/instance
```



Complex Type i:memberDic



Complex Type i:tupleValue

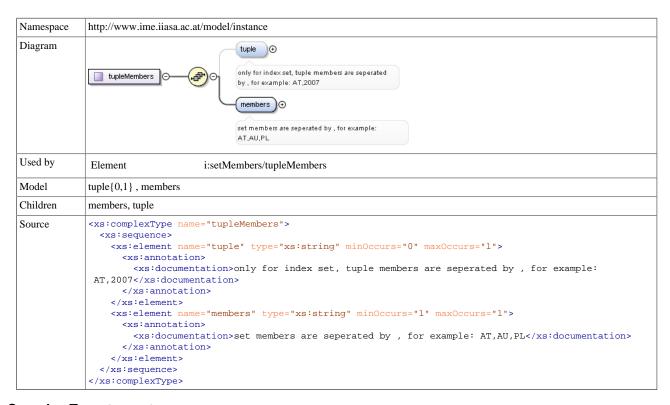


Complex Type i:setMembers

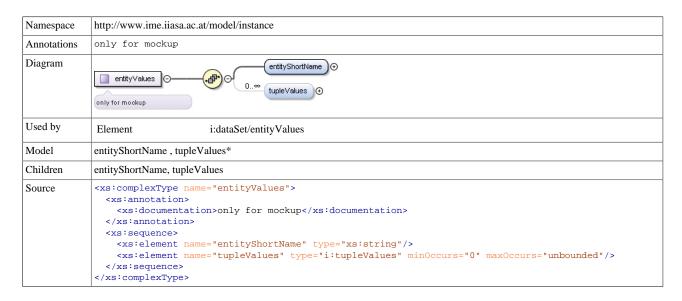
Namespace	http://www.ime.iiasa.ac.at/model/instance
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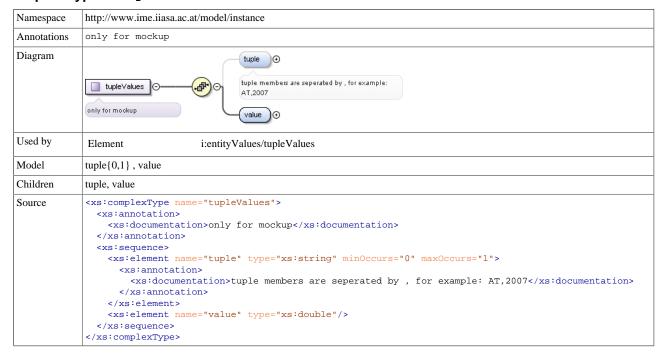
Complex Type i:tupleMembers



Complex Type i:entityValues



Complex Type i:tupleValues



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

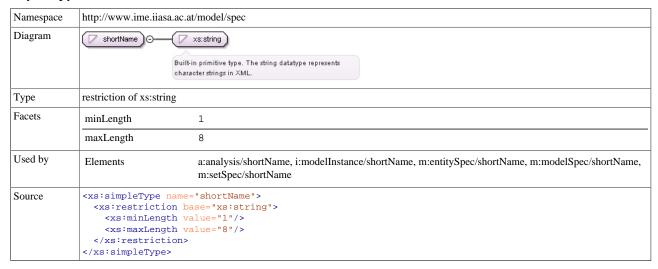
Schema(s)

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



Type	restriction of xs:str	ing
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>	

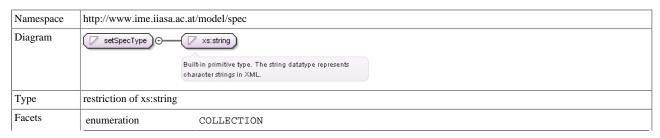
Simple Type m:description

Namespace	http://www.ime.iias	a.ac.at/model/spec
Diagram	description 🔾	Built-in primitive type. The string datatype represents character strings in XML.
Туре	restriction of xs:stri	ng
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

Namespace	http://www.ime.iiasa.ac.at/model/spec	
Diagram	Built-in p	rstring rrimitive type. The string datatype represents r strings in XML.
Type	restriction of xs:string	
Facets	enumeration	EDIT
	enumeration	TEST
	enumeration	COMMITTED
Used by	Elements	i:modelInstance/status, m:modelSpec/status
Source	<pre><xs:simpletype name="status"> <xs:restriction base="xs:string"> <xs:enumeration value="EDIT"></xs:enumeration> <xs:enumeration value="TEST"></xs:enumeration> <xs:enumeration value="COMMITTED"></xs:enumeration> </xs:restriction> </xs:simpletype></pre>	

Simple Type $\mathtt{m}: \mathtt{setSpecType}$



	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



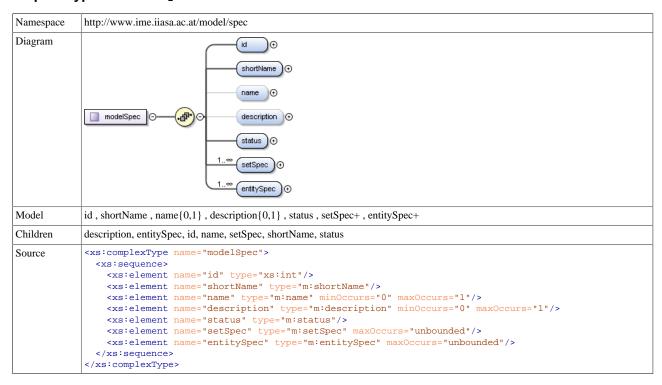
Simple Type m:mathType

Namespace	http://www.ime.iias	a.ac.at/model/spec	
Diagram	mathType)⊙	Built-in primitive type. The string datatype represents character strings in XML.	
Type	restriction of xs:string		
Facets	enumeration	INTEGER	
	enumeration	BINARY	

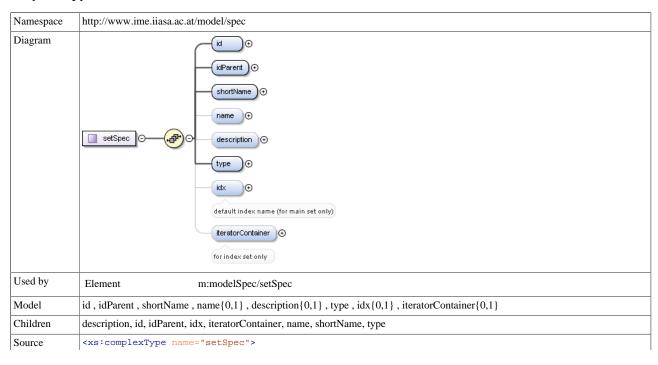
	enumeration	REAL	
Used by	Element	m:entitySpec/mathType	
Source	<pre><xs:simpletype name="mathType"></xs:simpletype></pre>		

Complex Type(s)

Complex Type m:modelSpec



Complex Type m: setSpec

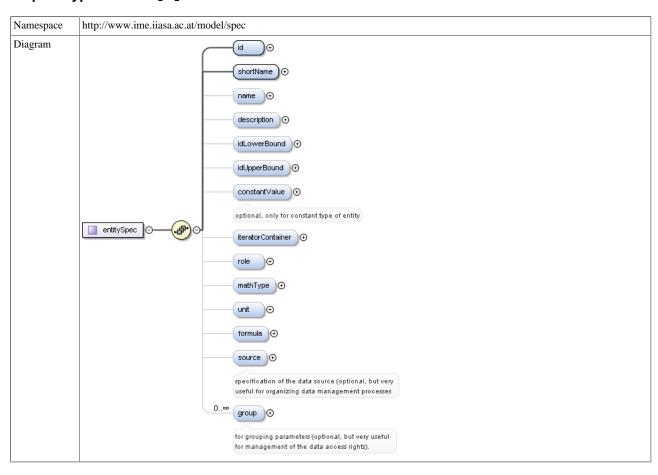


```
<xs:sequence>
    <xs:element name="id" type="xs:int"/>
    <!--sub set-->
    <xs:element name="idParent" type="xs:int"/>
    <xs:element name="shortName" type="m:shortName"/>
    <xs:element name="name" type="m:name" minOccurs="0" maxOccurs="1"/>
    <xs:element name="description" type="m:description" 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: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:sequence>
</xs:complexType>
```

Complex Type m:iteratorContainer

Namespace	http://www.ime.iiasa.ac.at/model/spec		
Diagram	iteratorContainer ⊙ 1∞ (idSetSpec) ⊙		
Used by	Elements m:entitySpec/iteratorContainer, m:setSpec/iteratorContainer		
Model	idSetSpec+		
Children	idSetSpec		
Source	<pre><xs:complextype name="iteratorContainer"></xs:complextype></pre>		

Complex Type m:entitySpec



```
Used by
                                         Element
                                                                                                            m:modelSpec/entitySpec
                                        id, shortName, name \{0,1\}, description \{0,1\}, idLowerBound \{0,1\}, i\overline{dUpperBound \{0,1\}}, constantValue \{0,1\}, idLowerBound \{
Model
                                        iteratorContainer\{0,1\} \text{ , } role\{0,1\} \text{ , } mathType\{0,1\} \text{ , } unit\{0,1\} \text{ , } formula\{0,1\} \text{ , } source\{0,1\} \text{ , } group*
                                        constantValue, description, formula, group, id, idLowerBound, idUpperBound, iteratorContainer, mathType, name, role,
Children
                                        shortName, source, unit
Source
                                        <xs:complexType name="entitySpec">
                                               <xs:sequence>
                                                      <xs:element name="id" type="xs:int"/>
                                                      <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="idLowerBound" type="xs:int" minOccurs="0" maxOccurs="1"/>
                                                      <xs:element name="idUpperBound" type="xs:int" minOccurs="0" maxOccurs="1"/>
                                                      <xs:element name="constantValue" type="xs:double" minOccurs="0" maxOccurs="1">
                                                            <xs:annotation>
                                                                   <xs:documentation>optional, only for constant type of entity</xs:documentation>
                                                      </xs:element>
                                                      <xs:element name="iteratorContainer" type="m:iteratorContainer" minOccurs="0" maxOccurs="1"/>
                                                      <xs:element name="role" type="m:entityRole" minOccurs="0" maxOccurs="1"/>
                                                      <xs:element name="mathType" type="m:mathType" minOccurs="0" maxOccurs="1"/>
                                                      <xs:element name="unit" type="xs:string" minOccurs="0" maxOccurs="1"/>
                                                      <xs:element name="formula" type="xs:string" minOccurs="0" maxOccurs="1"/>
                                                      <xs:element name="source" type="xs:string" minOccurs="0" maxOccurs="1">
                                                                   <xs:documentation>specification of the data source (optional, but very useful for organizing
                                            data management processes</xs:documentation>
                                                             </xs:annotation>
                                                       </xs:element>
                                                      <xs:element name="group" type="xs:string" minOccurs="0" maxOccurs="unbounded">
                                                                   \verb| <xs: documentation > for grouping parameters (optional, but very useful for management of the lightest content of the light of the lightest content of the lightest conte
                                           data access rights).</xs:documentation>
                                                            </xs:annotation>
                                                       </xs:element>
                                               </xs:sequence>
                                          </xs:complexType>
```