Schema documentation for data.xsd

september 7, 2012

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Resource hierarchy:

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

Schema(s)

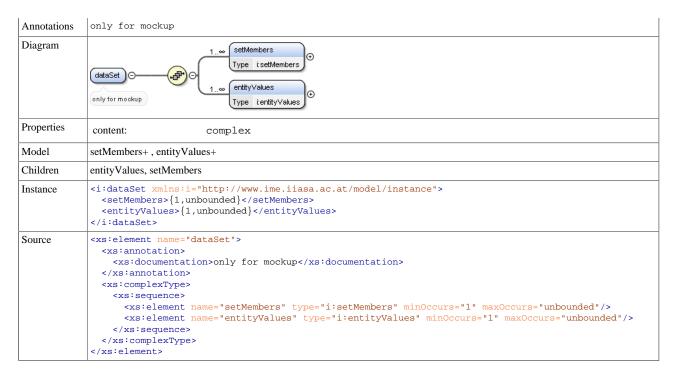
Main schema data.xsd

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

Element(s)

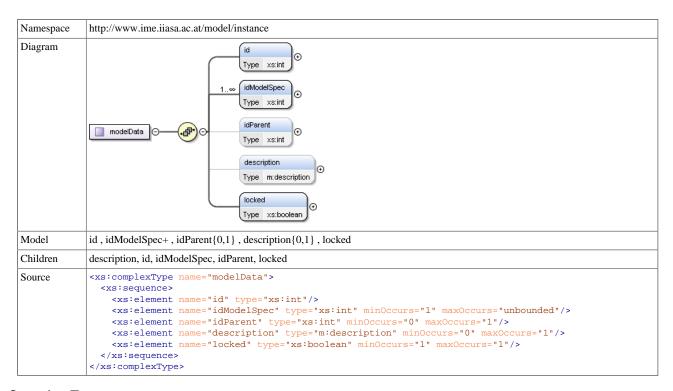
Element i:dataSet

Namespace	http://www.ime.iiasa.ac.at/model/instance
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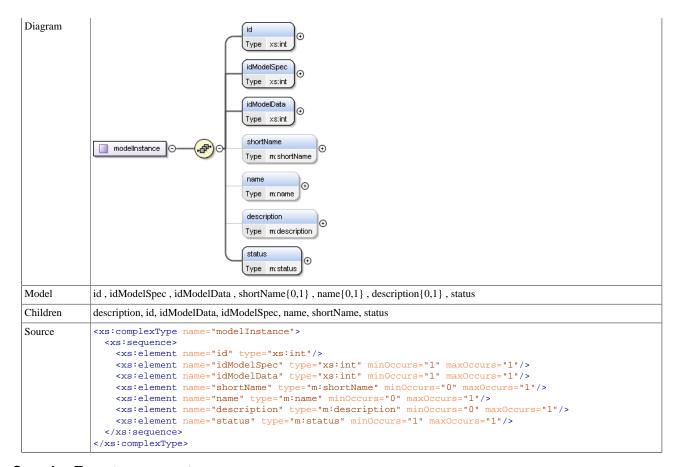
Complex Type(s)

Complex Type i:modelData

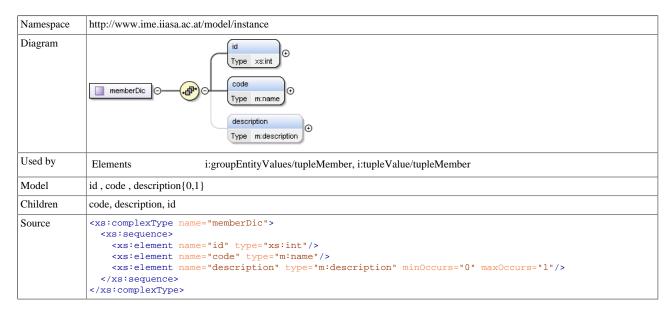


Complex Type i:modelInstance

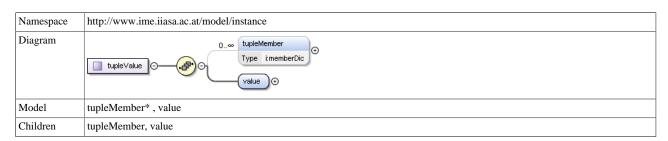
Namespace	http://www.ime.iiasa.ac.at/model/instance



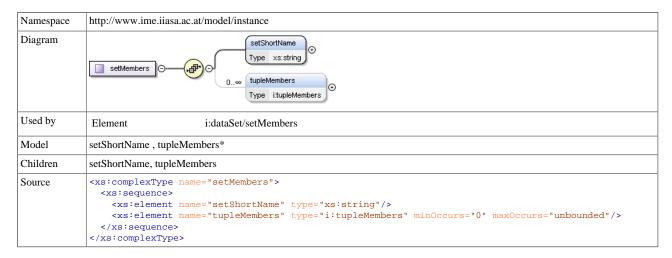
Complex Type i:memberDic



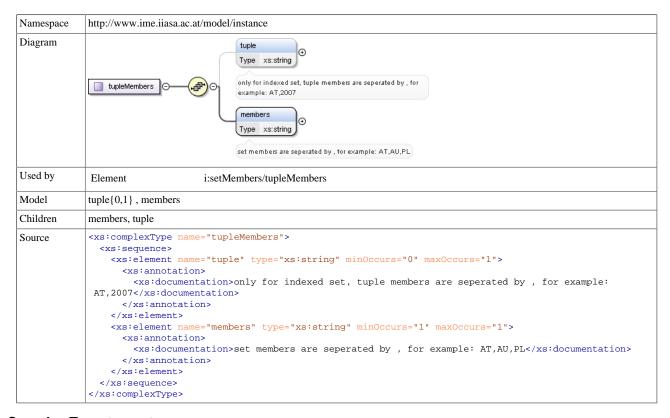
Complex Type i:tupleValue



Complex Type i:setMembers

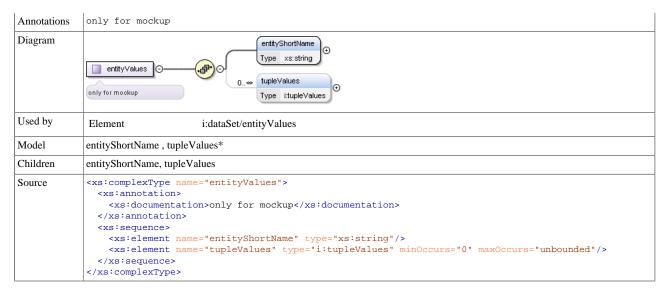


Complex Type i:tupleMembers

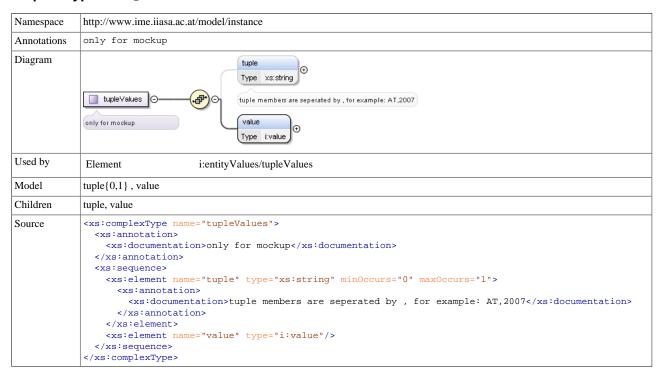


Complex Type i:entityValues

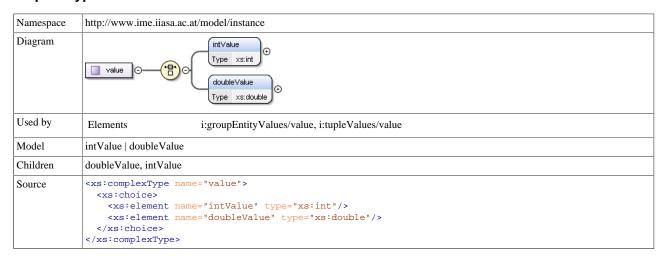
Namespace	http://www.ime.iiasa.ac.at/model/instance



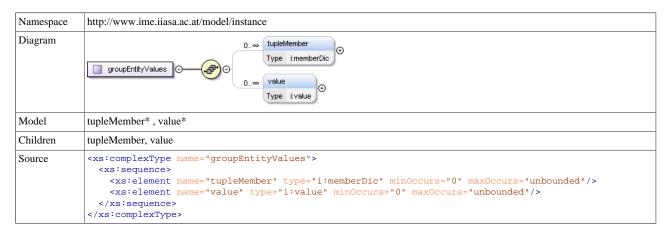
Complex Type i:tupleValues



Complex Type i:value



Complex Type i:groupEntityValues



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)

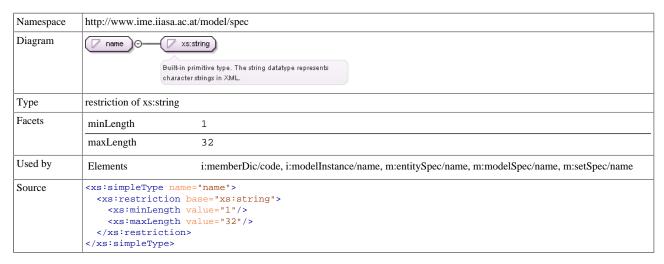
Simple Type m:description

Namespace	http://www.ime.iiasa.ac.at/model/spec		
Diagram		xs:string Built-in primitive type. The string datatype represents obaracter strings in XML.	
Туре	restriction of xs:string		
Facets	minLength	1	
	maxLength	512	
Used by	Elements	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:restriction></xs:simpletype></pre>		

Simple Type m: shortName

Namespace	http://www.ime.iiasa.ac.at/model/spec		
Diagram		xs:string vilit-in primitive type. The string datatype represents haraoter strings in XML.	
Туре	restriction of xs:string		
Facets	minLength	1	
	maxLength	8	
Used by	Elements	$i: model Instance/short Name, \ m: entity Spec/short Name, \ m: model Spec/short Name, \ m: set Spec/short Name, \ m: se$	

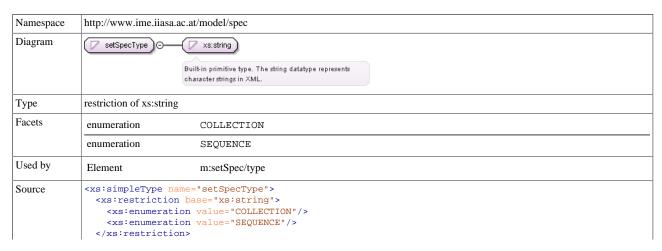
Simple Type m:name



Simple Type m: status

Namespace	http://www.ime.iiasa	http://www.ime.iiasa.ac.at/model/spec		
Diagram		xs:string t-in primitive type. The string datatype represents raoter strings in XML.		
Туре	restriction of xs:strin	g		
Facets	enumeration	EDIT		
	enumeration	TEST		
	enumeration	COMMITTED		
Used by	Elements	i:modelInstance/status, m:modelSpec/status		
Source	<pre><xs:enumerat <xs:enumerat<="" pre=""></xs:enumerat></pre>	<pre>n base="xs:string"> ion value="EDIT"/> ion value="TEST"/> ion value="COMMITTED"/> on></pre>		

Simple Type m: setSpecType



</xs:simpleType>

Simple Type m:entityRole

Namespace	http://www.ime.iiasa.	ac.at/model/spec	
Diagram			
		uilt-in primitive type. The string datatype represents haraoter strings in XML.	
Type	restriction of xs:string	;	
Facets	enumeration	CONSTANT	
	enumeration	PARAMETER	
	enumeration	DECISION_VAR	
	enumeration	EXTERNAL_DECISION_VAR	
	enumeration	OUTCOME_VAR	
	enumeration	AUXILIARY_VAR	
	enumeration	ASSIGNMENT	
	enumeration	CONSTRAINT	
	enumeration	A_VARIABLE	<pre>any type of variable: DECISION_VAR, EXTERNAL_DECISION_VAR,OUTCOME_VAR,or AUXILIARY_VAR</pre>
	enumeration	A_FORMULA	any type of formula: ASSIGNMENT or CONSTRAINT
Used by	Element	m:entitySpec/role	
Source	<pre><xs:restriction <="" <xs:annotat="" <xs:annotat<="" <xs:enumerat:="" pre="" xs:annotat="" xs:enumerat:=""></xs:restriction></pre>	mentation>any type of variable: as:documentation> ation> cion> con value="A_FORMULA"> cion> mentation>any type of formula: A ation> cion>	DECISION_VAR, EXTERNAL_DECISION_VAR,OUTCOME_VAR,or

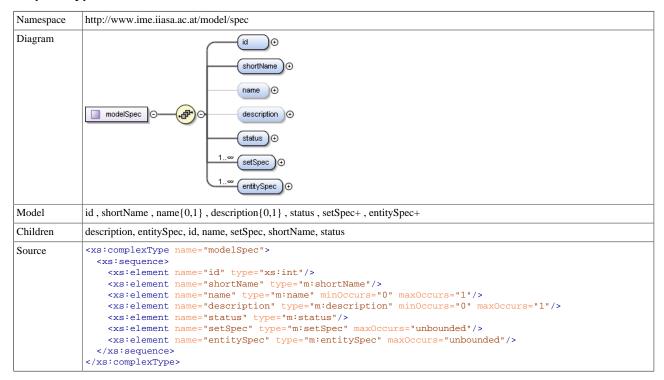
Simple Type m:mathType

Namespace	http://www.ime.iiasa.ac.at/model/spec		
Diagram	mathType		
Type	restriction of xs:string		
Facets	enumeration INTEGER		
	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 value="REAL"></xs:enumeration> </xs:restriction></xs:simpletype></pre>		

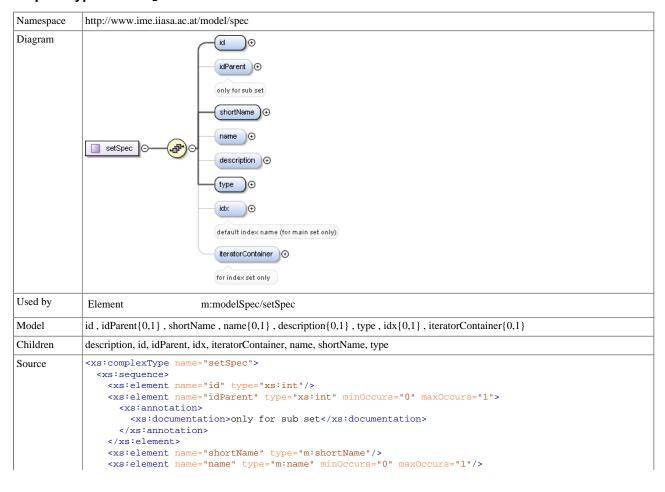
</xs:simpleType>

Complex Type(s)

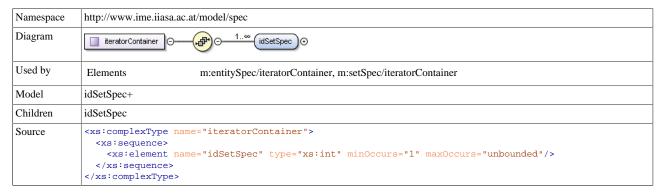
Complex Type m:modelSpec



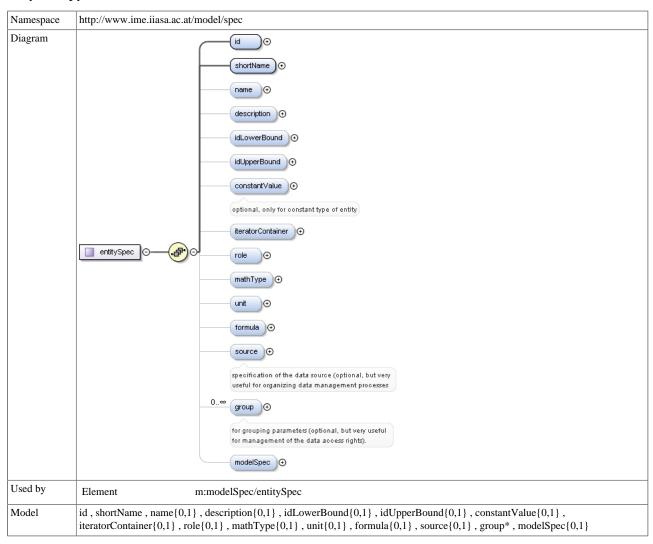
Complex Type m: setSpec



Complex Type m:iteratorContainer



Complex Type m:entitySpec



```
Children
             constantValue, description, formula, group, id, idLowerBound, idUpperBound, iteratorContainer, mathType, modelSpec, name,
             role, 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:annotation>
                 </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:annotation>
                     <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">
                     <xs:documentation>for grouping parameters (optional, but very useful for management of the
              data access rights).</xs:documentation>
                   </xs:annotation>
                 </xs:element>
                 <xs:element name="modelSpec" type="xs:string" minOccurs="0" maxOccurs="1"/>
               </xs:sequence>
             </xs:complexType>
```