Schema documentation for sms.xsd

september 7, 2012

Table of Contents

amespace: "http://www.ime.iiasa.ac.at/model/spec"	1
Schema(s)	
Main schema sms . xsd	
Complex Type(s)	
Complex Type m:modelSpec	
Complex Type m:setSpec	
Complex Type m:iteratorContainer	
Complex Type m:entitySpec	
Simple Type(s)	
Simple Type m:shortName	
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	

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

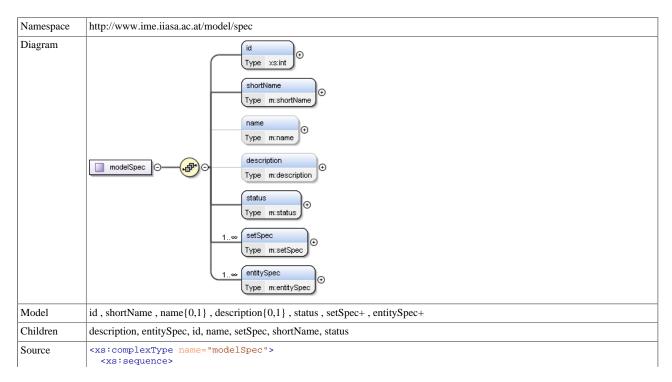
Schema(s)

Main schema sms.xsd

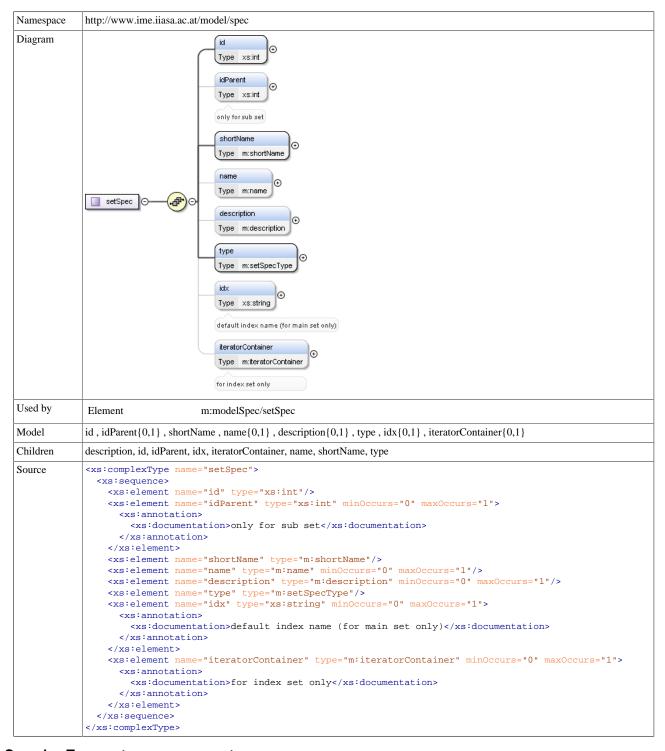
Namespace	http://www.ime.iiasa.ac.a	t/model/spec
Properties	attribute form default:	unqualified
	element form default:	unqualified

Complex Type(s)

Complex Type m:modelSpec



Complex Type m:setSpec

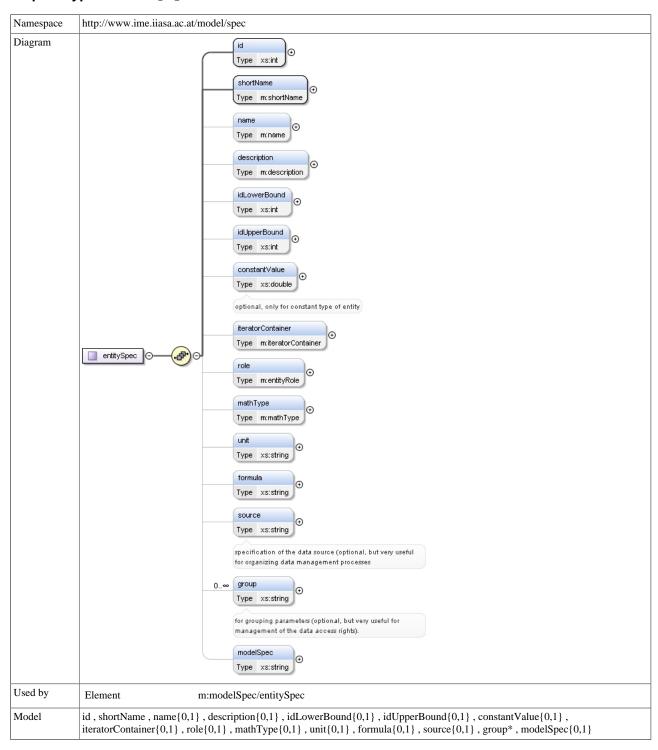


Complex Type m:iteratorContainer

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

Diagram	iteratorContainer
Used by	Elements m:entitySpec/iteratorContainer, m:setSpec/iteratorContainer
Model	idSetSpec+
Children	idSetSpec
Source	<pre><xs:complextype name="iteratorContainer"> <xs:sequence></xs:sequence></xs:complextype></pre>

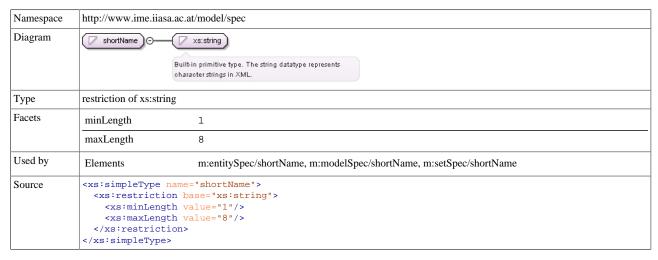
Complex Type m:entitySpec



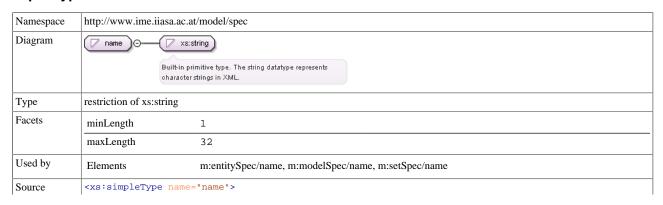
```
Children
             constantValue, description, formula, group, id, idLowerBound, idUpperBound, iteratorContainer, mathType, modelSpec, name,
             role, shortName, source, unit
             <xs:complexType name="entitySpec">
Source
               <xs:sequence>
                 <xs:element 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>
```

Simple Type(s)

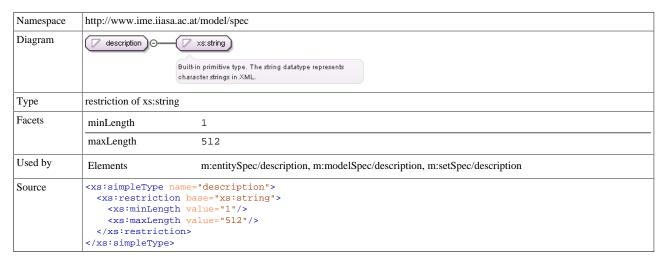
Simple Type m: shortName



Simple Type m:name



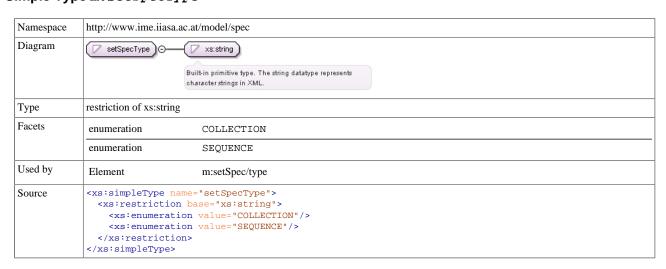
Simple Type m:description



Simple Type m: status

Namespace	http://www.ime.iiasa.ac.at/model/spec		
Diagram		xs:string ill-in primitive type. The string datatype represents aracter strings in XML.	
Туре	restriction of xs:strii	ng	
Facets	enumeration	EDIT	
	enumeration	TEST	
	enumeration	COMMITTED	
Used by	Element	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 m:setSpecType



Simple Type m:entityRole

Namespace	http://www.ime.iiasa.a	ac.at/model/spec	
Diagram	entityRole 🗇 —	xs:string	
		uilt-in primitive type. The string datatype represents haracter strings in XML.	
Туре	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:simpletype name="entityRole"> <xs:restriction base="xs:string"> <xs:enumeration value="CONSTANT"></xs:enumeration> <xs:enumeration value="PARAMETER"></xs:enumeration> <xs:enumeration value="EXTERNAL_DECISION_VAR"></xs:enumeration> <xs:enumeration value="EXTERNAL_DECISION_VAR"></xs:enumeration> <xs:enumeration value="CONSTANT"></xs:enumeration> <xs:enumeration value="AUXILIARY_VAR"></xs:enumeration> <xs:enumeration value="AUXILIARY_VAR"></xs:enumeration> <xs:enumeration value="CONSTRAINT"></xs:enumeration> <xs:enumeration value="A_VARIABLE"> <xs:annotation> <xs:documentation>any type of variable: DECISION_VAR, EXTERNAL_DECISION_VAR,OUTCOME_VAR,oralliary_Var</xs:documentation></xs:annotation> </xs:enumeration> <xs:enumeration value="A_FORMULA"> <xs:annotation> </xs:annotation> </xs:enumeration> </xs:restriction></xs:simpletype></pre>		

Simple Type m:mathType

Namespace	http://www.ime.iiasa.ac.at/model/spec		
Diagram	✓ mathType ⊙—	Built-in primitive type. The string datatype represents character strings in XML.	
Туре	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>		