Schema documentation for sms.xsd

september 11, 2012

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

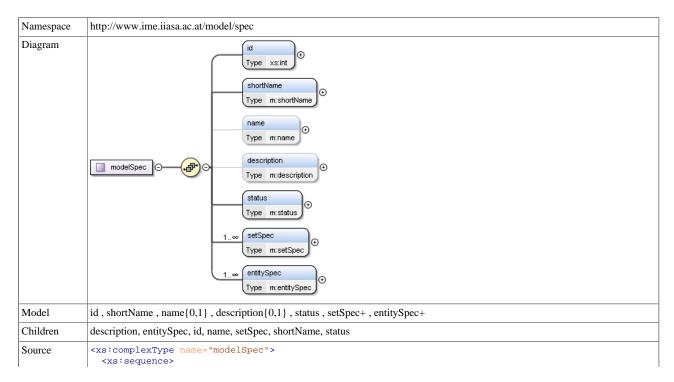
Schema(s)

Main schema sms.xsd

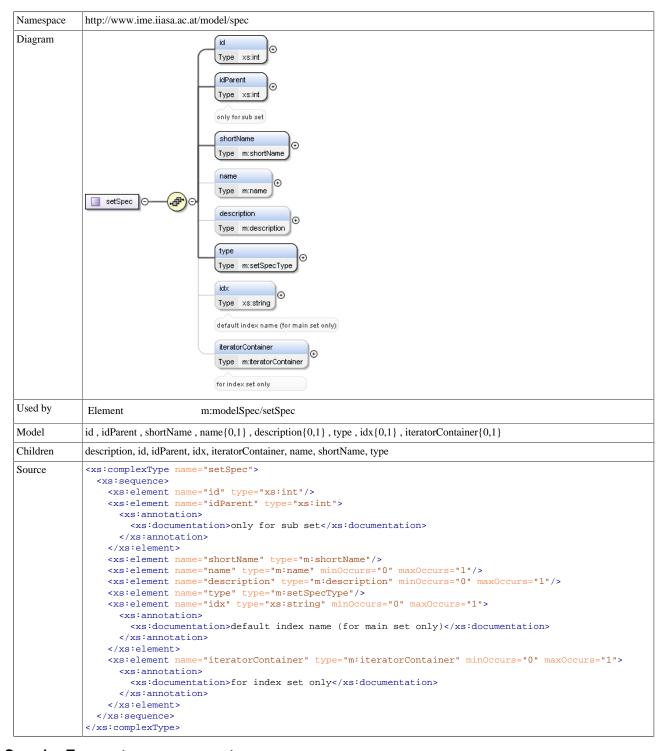
Namespace	http://www.ime.iiasa.ac.at/model/spec		
Properties	attribute form default: unqualified		
	element form default: unqualified		

Complex Type(s)

Complex Type m:modelSpec

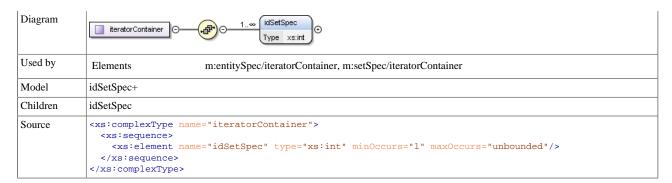


Complex Type m: setSpec

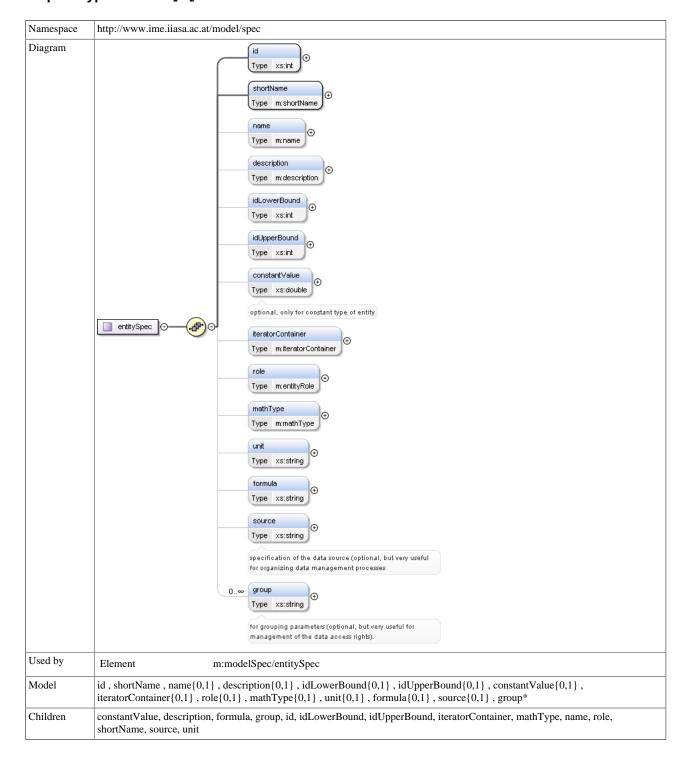


Complex Type m:iteratorContainer

Namespace	http://www.ime.iiasa.ac.at/model/spec	
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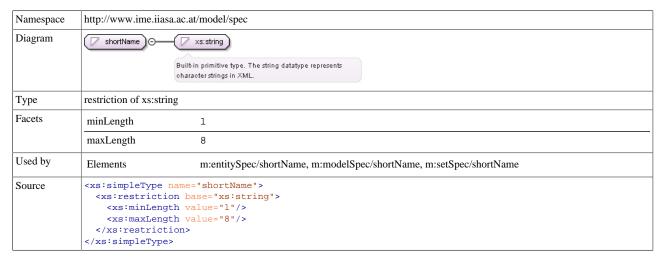
Complex Type m:entitySpec



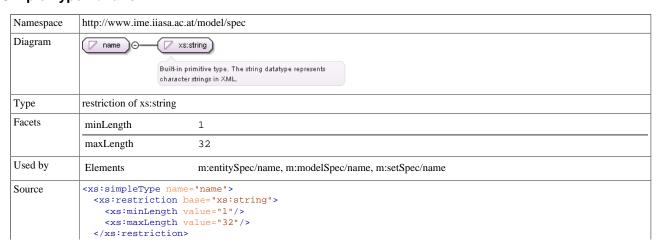
```
Source
             <xs:complexType name="entitySpec">
               <xs:sequence>
                 <xs:element name="id" type="xs:int"/>
                 <xs:element name="shortName" type="m:shortName"/>
                 <xs:element name="name" type="m:name" minOccurs="0" maxOccurs="1"/>
                 <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>
                     data management processes</xs:documentation>
                   </xs:annotation>
                 </xs:element>
                 <xs:element name="group" type="xs:string" minOccurs="0" maxOccurs="unbounded">
                   <xs:annotation>
                     <xs:documentation>for grouping parameters (optional, but very useful for management of the
             data access rights).</xs:documentation>
                   </xs:annotation>
                 </xs:element>
               </xs:sequence>
             </xs:complexType>
```

Simple Type(s)

Simple Type m: shortName



Simple Type m:name



</xs:simpleType>

Simple Type m:description

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



Simple Type m:entityRole

Namespace	http://www.ime.iiasa.ac.at/model/spec
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entityRole 🗇 —	xs:string		
restriction of xs:string			
enumeration	CONSTANT		
enumeration	PARAMETER		
enumeration	DECISION_VAR		
enumeration	EXTERNAL_DECISION_VAR		
enumeration	OUTCOME_VAR		
enumeration	AUXILIARY_VAR		
enumeration	ASSIGNMENT		
enumeration	CONSTRAINT		
enumeration	A_VARIABLE	any type of variable: DECISION_VAR, EXTERNAL_DECISION_VAR,OUTCOME_VAR,or AUXILIARY_VAR	
enumeration	A_FORMULA	any type of formula: ASSIGNMENT or CONSTRAINT	
Element	m:entitySpec/role		
<pre><xs:restriction <="" <xs:annotat="" <xs:docur="" <xs:enumerat:="" <xs:enumerat<="" auxiliary_var<="" pre="" x="" xs:annotat=""></xs:restriction></pre>	n base="xs:string"> ion value="CONSTANT"/> ion value="CONSTANT"/> ion value="DECISION_VAR"/> ion value="BECISION_VAR"/> ion value="OUTCOME_VAR"/> ion value="AUXILIARY_VAR"/> ion value="ASSIGNMENT"/> ion value="CONSTRAINT"/> ion value="A_VARIABLE"> ion value= VARIABLE VA	VAR"/> E: DECISION_VAR, EXTERNAL_DECISION_VAR,OUTCOME_VAR,or E: ASSIGNMENT or CONSTRAINT	
	restriction of xs:string enumeration enumeration Element <xs:enumerat: <x<="" <xs:enumerat:="" td=""><td>restriction of xs:string enumeration</td></xs:enumerat:>	restriction of xs:string enumeration	

Simple Type m:mathType

Namespace	http://www.ime.iiasa	c.at/model/spec
Diagram		xs:string ill-in primitive type. The string datatype represents aracter strings in XML.
Туре	restriction of xs:string	
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>	