

Schema documentation for model.xsd

december 3, 2011

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

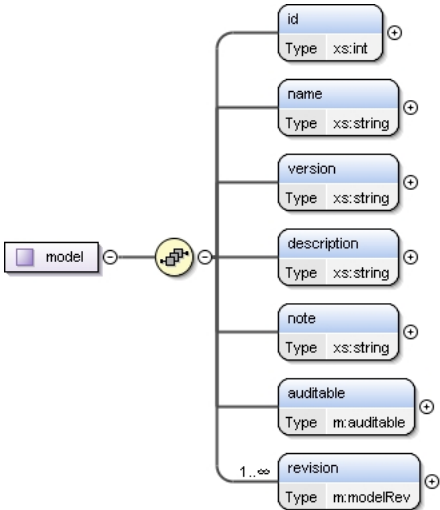
Schema(s)

Main schema model.xsd

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

Complex Type(s)

Complex Type m:model

Namespace	http://www.ime.iiasa.ac.at/enrima/model/example
Diagram	
Model	id , name , version , description , note , auditable , revision+
Children	auditable, description, id, name, note, revision, version
Source	<code><xs:complexType name="model"></code>

```

<xs:sequence>
  <xs:element name="id" type="xs:int"/>
  <xs:element name="name" type="xs:string"/>
  <xs:element name="version" type="xs:string"/>
  <xs:element name="description" type="xs:string"/>
  <xs:element name="note" type="xs:string"/>
  <xs:element name="auditable" type="m:auditable"/>
  <xs:element name="revision" type="m:modelRev" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>

```

Complex Type m:auditable

Namespace	http://www.ime.iiasa.ac.at/enrima/model/example
Diagram	
Used by	Elements m:model/auditable, m:modelRev/auditable
Model	ALL(creationDate createdBy modificationDate modifieddBy)
Children	createdBy, creationDate, modificationDate, modifieddBy
Source	<pre> <xs:complexType name="auditable"> <xs:all> <xs:element name="creationDate" type="xs:date"/> <xs:element name="createdBy" type="m:user"/> <xs:element name="modificationDate" type="xs:date"/> <xs:element name="modifieddBy" type="m:user"/> </xs:all> </xs:complexType> </pre>

Complex Type m:user

Namespace	http://www.ime.iiasa.ac.at/enrima/model/example
Diagram	
Used by	Elements m:auditable/createdBy, m:auditable/modifieddBy
Model	ALL(id login)
Children	id, login
Source	<pre> <xs:complexType name="user"> <xs:all> <xs:element name="id" type="xs:int"/> <xs:element name="login" type="xs:string"/> </xs:all> </xs:complexType> </pre>

Complex Type m:modelRev

Namespace	http://www.ime.iiasa.ac.at/enrima/model/example
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Diagram	
Used by	Element <code>m:model/revision</code>
Model	<code>id</code> , <code>idModel</code> , <code>revNo</code> , <code>description</code> , <code>note</code> , <code>auditable</code> , <code>status</code> , <code>set</code> + , <code>entity</code> +
Children	<code>auditable</code> , <code>description</code> , <code>entity</code> , <code>id</code> , <code>idModel</code> , <code>note</code> , <code>revNo</code> , <code>set</code> , <code>status</code>
Source	<pre> <xs:complexType name="modelRev"> <xs:sequence> <xs:element name="id" type="xs:int"/> <xs:element name="idModel" type="xs:int"/> <!--model revision number, generated by the program--> <xs:element name="revNo" type="xs:int"/> <xs:element name="description" type="xs:string"/> <xs:element name="note" type="xs:string"/> <xs:element name="auditable" type="m:auditable"/> <xs:element name="status" type="m:status"/> <xs:element name="set" type="m:set" maxOccurs="unbounded"/> <xs:element name="entity" type="m:entity" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </pre>

Complex Type `m:set`

Namespace	<code>http://www.ime.iiasa.ac.at/enrima/model/example</code>
Diagram	
Used by	Element <code>m:modelRev/set</code>
Model	<code>ALL(id parentSetId label description note type iteratorContainer)</code>

Children	description, id, iteratorContainer, label, note, parentSetId, type
Source	<pre> <xs:complexType name="set"> <xs:all> <xs:element name="id" type="xs:int"/> <xs:element name="parentSetId" type="xs:int"/> <xs:element name="label" type="xs:string"/> <xs:element name="description" type="xs:string"/> <xs:element name="note" type="xs:string"/> <xs:element name="type" type="m:setType"/> <xs:element name="iteratorContainer" type="m:iteratorContainer"/> </xs:all> </xs:complexType> </pre>

Complex Type m:iteratorContainer

Namespace	http://www.ime.iiasa.ac.at/enrima/model/example
Diagram	
Used by	Elements m:entity/iteratorContainer, m:set/iteratorContainer
Model	idSet+
Children	idSet
Source	<pre> <xs:complexType name="iteratorContainer"> <xs:sequence> <xs:element name="idSet" type="xs:int" maxOccurs="unbounded"/> </xs:sequence> </xs:complexType> </pre>

Complex Type m:entity

Namespace	http://www.ime.iiasa.ac.at/enrima/model/example
Diagram	
Used by	Element m:modelRev/entity
Model	ALL(id label description note constantValue iteratorContainer role mathType unit formula)
Children	constantValue, description, formula, id, iteratorContainer, label, mathType, note, role, unit
Source	<pre> <xs:complexType name="entity"> <xs:all> <xs:element name="id" type="xs:int"/> <xs:element name="label" type="xs:string"/> <xs:element name="description" type="xs:string"/> </pre>

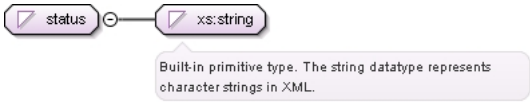
```

<xs:element name="note" type="xs:string" />
<!--
  <xs:element name="lowerBoundId" type="xs:int" />
  <xs:element name="upperBoundId" type="xs:int" />
-->
<xs:element name="constantValue" type="xs:double" />
<xs:element name="iteratorContainer" type="m:iteratorContainer" />
<xs:element name="role" type="m:entityRole" />
<xs:element name="mathType" type="m:mathType" />
<xs:element name="unit" type="xs:string" />
<xs:element name="formula" type="xs:string" />
</xs:all>
</xs:complexType>

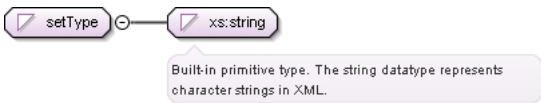
```

Simple Type(s)

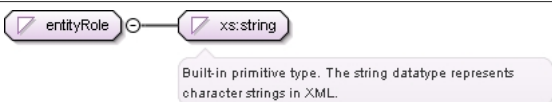
Simple Type **m:status**

Namespace	http://www.ime.iiasa.ac.at/enrima/model/example						
Diagram							
Type	restriction of xs:string						
Facets	<table> <tr><td>enumeration</td><td>EDIT</td></tr> <tr><td>enumeration</td><td>TEST</td></tr> <tr><td>enumeration</td><td>COMMIT</td></tr> </table>	enumeration	EDIT	enumeration	TEST	enumeration	COMMIT
enumeration	EDIT						
enumeration	TEST						
enumeration	COMMIT						
Used by	Element m:modelRev/status						
Source	<pre> <xs:simpleType name="status"> <xs:restriction base="xs:string"> <xs:enumeration value="EDIT" /> <xs:enumeration value="TEST" /> <xs:enumeration value="COMMIT" /> </xs:restriction> </xs:simpleType> </pre>						

Simple Type **m:setType**

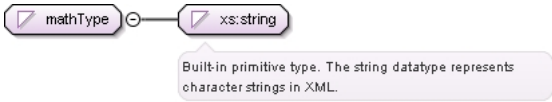
Namespace	http://www.ime.iiasa.ac.at/enrima/model/example				
Diagram					
Type	restriction of xs:string				
Facets	<table> <tr><td>enumeration</td><td>COLLECTION</td></tr> <tr><td>enumeration</td><td>SEQUENCE</td></tr> </table>	enumeration	COLLECTION	enumeration	SEQUENCE
enumeration	COLLECTION				
enumeration	SEQUENCE				
Used by	Element m:set/type				
Source	<pre> <xs:simpleType name="setType"> <xs:restriction base="xs:string"> <xs:enumeration value="COLLECTION" /> <xs:enumeration value="SEQUENCE" /> </xs:restriction> </xs:simpleType> </pre>				

Simple Type **m:entityRole**

Namespace	http://www.ime.iiasa.ac.at/enrima/model/example				
Diagram					
Type	restriction of xs:string				
Facets	<table> <tr><td>enumeration</td><td>CONSTANT</td></tr> <tr><td>enumeration</td><td>PARAMETER</td></tr> </table>	enumeration	CONSTANT	enumeration	PARAMETER
enumeration	CONSTANT				
enumeration	PARAMETER				

	enumeration	DECISION_VAR
	enumeration	EXTERNAL_DECISION_VAR
	enumeration	OUTCOME_VAR
	enumeration	AUXILIARY_VAR
	enumeration	ASSIGNMENT
	enumeration	CONSTRAINT
Used by	Element	m:entity/role
Source	<pre> <xs:simpleType name="entityRole"> <xs:restriction base="xs:string"> <!-- Parameters --> <xs:enumeration value="CONSTANT" /> <!-- Parameters --> <xs:enumeration value="PARAMETER" /> <!-- Variables --> <xs:enumeration value="DECISION_VAR" /> <xs:enumeration value="EXTERNAL_DECISION_VAR" /> <xs:enumeration value="OUTCOME_VAR" /> <xs:enumeration value="AUXILIARY_VAR" /> <!-- relations --> <xs:enumeration value="ASSIGNMENT" /> <xs:enumeration value="CONSTRAINT" /> </xs:restriction> </xs:simpleType> </pre>	

Simple Type m:mathType

Namespace	http://www.ime.iiasa.ac.at/enrima/model/example	
Diagram		
Type	restriction of xs:string	
Facets	enumeration	INTEGER
	enumeration	BINARY
	enumeration	REAL
Used by	Element	m:entity/mathType
Source	<pre> <xs:simpleType name="mathType"> <xs:restriction base="xs:string"> <xs:enumeration value="INTEGER" /> <xs:enumeration value="BINARY" /> <xs:enumeration value="REAL" /> </xs:restriction> </xs:simpleType> </pre>	