

# Schema documentation for wss.xsd

september 11, 2012

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## Resource hierarchy:

**Legend:**  Import,  Include,  Redefine,  Cycle detected

wss.xsd



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

### Schema(s)

#### Main schema wss.xsd

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

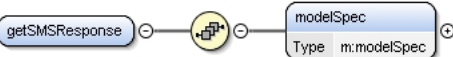
### Element(s)

#### Element w:getSMSRequest

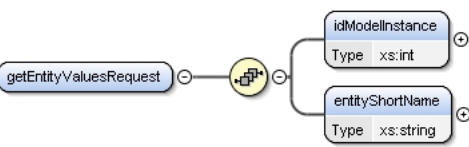
Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	ALL(idModelSpec)
Children	idModelSpec
Instance	<pre>&lt;w:getSMSRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idModelSpec&gt;{1,1}&lt;/idModelSpec&gt; &lt;/w:getSMSRequest&gt;</pre>
Source	<pre>&lt;xs:element name="getSMSRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:all&gt;       &lt;xs:element name="idModelSpec" type="xs:int" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:all&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

#### Element w:getSMSResponse

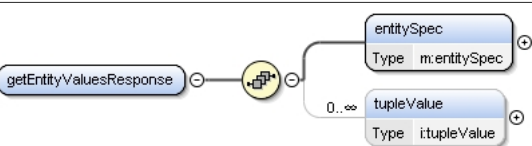
Namespace	http://www.ime.iiasa.ac.at/enrima
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Diagram	
Properties	content: complex
Model	modelSpec
Children	modelSpec
Instance	<pre>&lt;w:getSMSResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;modelSpec&gt;{1,1}&lt;/modelSpec&gt; &lt;/w:getSMSResponse&gt;</pre>
Source	<pre>&lt;xs:element name="getSMSResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="modelSpec" type="m:modelSpec"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

### Element w:getEntityValuesRequest

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	idModelInstance , entityShortName
Children	entityShortName, idModelInstance
Instance	<pre>&lt;w:getEntityValuesRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idModelInstance&gt;{1,1}&lt;/idModelInstance&gt;   &lt;entityShortName&gt;{1,1}&lt;/entityShortName&gt; &lt;/w:getEntityValuesRequest&gt;</pre>
Source	<pre>&lt;xs:element name="getEntityValuesRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="idModelInstance" type="xs:int" minOccurs="1" maxOccurs="1"/&gt;       &lt;xs:element name="entityShortName" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

### Element w:getEntityValuesResponse

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	entitySpec , tupleValue*
Children	entitySpec, tupleValue
Instance	<pre>&lt;w:getEntityValuesResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;entitySpec&gt;{1,1}&lt;/entitySpec&gt;   &lt;tupleValue&gt;{0,unbounded}&lt;/tupleValue&gt; &lt;/w:getEntityValuesResponse&gt;</pre>
Source	<pre>&lt;xs:element name="getEntityValuesResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="entitySpec" type="m:entitySpec" minOccurs="1" maxOccurs="1"/&gt;       &lt;xs:element name="tupleValue" type="i:tupleValue" minOccurs="0" maxOccurs="unbounded"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

**Element w:getSetMembersRequest**

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	<pre> graph LR     A([getSetMembersRequest]) --&gt; B(( ))     B --&gt; C[idModelInstance Type xs:int]     B --&gt; D[setShortName Type xs:string]     B -- "0..∞" --&gt; E[tupleMember Type i:memberDic]             </pre>
Properties	content: complex
Model	idModelInstance , setShortName , tupleMember*
Children	idModelInstance, setShortName, tupleMember
Instance	<pre> &lt;w:getSetMembersRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idModelInstance&gt;{1,1}&lt;/idModelInstance&gt;   &lt;setShortName&gt;{1,1}&lt;/setShortName&gt;   &lt;tupleMember&gt;{0,unbounded}&lt;/tupleMember&gt; &lt;/w:getSetMembersRequest&gt;             </pre>
Source	<pre> &lt;xs:element name="getSetMembersRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="idModelInstance" type="xs:int" minOccurs="1" maxOccurs="1"/&gt;       &lt;xs:element name="setShortName" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;       &lt;xs:element name="tupleMember" type="i:memberDic" minOccurs="0" maxOccurs="unbounded"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;             </pre>

**Element w:getSetMembersResponse**

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	<pre> graph LR     A([getSetMembersResponse]) --&gt; B(( ))     B -- "1..∞" --&gt; C[member Type i:memberDic]             </pre>
Properties	content: complex
Model	member+
Children	member
Instance	<pre> &lt;w:getSetMembersResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;member&gt;{1,unbounded}&lt;/member&gt; &lt;/w:getSetMembersResponse&gt;             </pre>
Source	<pre> &lt;xs:element name="getSetMembersResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="member" type="i:memberDic" maxOccurs="unbounded"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;             </pre>

**Element w:storeSetMembersRequest**

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	<pre> graph LR     A([storeSetMembersRequest]) --&gt; B(( ))     B --&gt; C[idModeldata Type xs:int]     B --&gt; D[idSetSpec Type xs:int]     B -- "1..∞" --&gt; E[setMembers Type i:setMembers]             </pre>
Properties	content: complex
Model	idModeldata , idSetSpec , setMembers+
Children	idModeldata, idSetSpec, setMembers

Instance	<pre>&lt;w:storeSetMembersRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idModeldata&gt;{1,1}&lt;/idModeldata&gt;   &lt;idSetSpec&gt;{1,1}&lt;/idSetSpec&gt;   &lt;setMembers&gt;{1,unbounded}&lt;/setMembers&gt; &lt;/w:storeSetMembersRequest&gt;</pre>
Source	<pre>&lt;xs:element name="storeSetMembersRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="idModeldata" type="xs:int" minOccurs="1" maxOccurs="1" /&gt;       &lt;xs:element name="idSetSpec" type="xs:int" minOccurs="1" maxOccurs="1" /&gt;       &lt;xs:element name="setMembers" type="i:setMembers" minOccurs="1" maxOccurs="unbounded" /&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

### Element w:storeSetMembersResponse

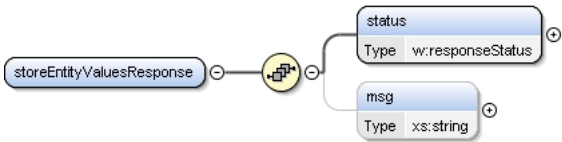
Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	status , msg{0,1}
Children	msg, status
Instance	<pre>&lt;w:storeSetMembersResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;status&gt;{1,1}&lt;/status&gt;   &lt;msg&gt;{0,1}&lt;/msg&gt; &lt;/w:storeSetMembersResponse&gt;</pre>
Source	<pre>&lt;xs:element name="storeSetMembersResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="status" type="w:responseStatus" minOccurs="1" maxOccurs="1" /&gt;       &lt;xs:element name="msg" type="xs:string" minOccurs="0" maxOccurs="1" /&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

### Element w:storeEntityValuesRequest

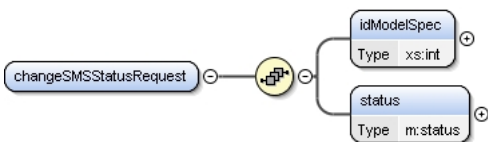
Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	idModeldata , tupleValue*
Children	idModeldata, tupleValue
Instance	<pre>&lt;w:storeEntityValuesRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idModeldata&gt;{1,1}&lt;/idModeldata&gt;   &lt;tupleValue&gt;{0,unbounded}&lt;/tupleValue&gt; &lt;/w:storeEntityValuesRequest&gt;</pre>
Source	<pre>&lt;xs:element name="storeEntityValuesRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="idModeldata" type="xs:int" minOccurs="1" maxOccurs="1" /&gt;       &lt;xs:element name="tupleValue" type="i:tupleValue" minOccurs="0" maxOccurs="unbounded" /&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

### Element w:storeEntityValuesResponse

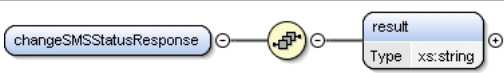
Namespace	http://www.ime.iiasa.ac.at/enrima
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Diagram	 The diagram shows the 'storeEntityValuesResponse' element containing two children: 'status' (Type: w:responseStatus) and 'msg' (Type: xs:string). Both children are optional, indicated by a circle with a plus sign.
Properties	content: complex
Model	status , msg{0,1}
Children	msg, status
Instance	<pre>&lt;w:storeEntityValuesResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;status&gt;{1,1}&lt;/status&gt;   &lt;msg&gt;{0,1}&lt;/msg&gt; &lt;/w:storeEntityValuesResponse&gt;</pre>
Source	<pre>&lt;xs:element name="storeEntityValuesResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="status" type="w:responseStatus" minOccurs="1" maxOccurs="1"/&gt;       &lt;xs:element name="msg" type="xs:string" minOccurs="0" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

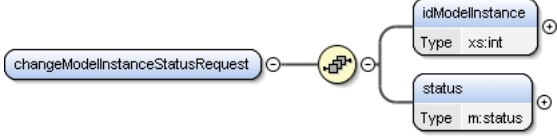
### Element w:changeSMSStatusRequest

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	 The diagram shows the 'changeSMSStatusRequest' element containing two children: 'idModelSpec' (Type: xs:int) and 'status' (Type: m:status). Both children are optional, indicated by a circle with a plus sign.
Properties	content: complex
Model	idModelSpec , status
Children	idModelSpec, status
Instance	<pre>&lt;w:changeSMSStatusRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idModelSpec&gt;{1,1}&lt;/idModelSpec&gt;   &lt;status&gt;{1,1}&lt;/status&gt; &lt;/w:changeSMSStatusRequest&gt;</pre>
Source	<pre>&lt;xs:element name="changeSMSStatusRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="idModelSpec" type="xs:int" minOccurs="1" maxOccurs="1"/&gt;       &lt;xs:element name="status" type="m:status" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

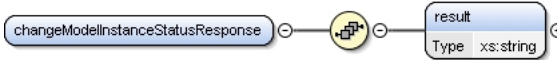
### Element w:changeSMSStatusResponse

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	 The diagram shows the 'changeSMSStatusResponse' element containing one child: 'result' (Type: xs:string). The child is optional, indicated by a circle with a plus sign.
Properties	content: complex
Model	result
Children	result
Instance	<pre>&lt;w:changeSMSStatusResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;result&gt;{1,1}&lt;/result&gt; &lt;/w:changeSMSStatusResponse&gt;</pre>
Source	<pre>&lt;xs:element name="changeSMSStatusResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="result" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>


**Element w:changeModelInstanceStatusRequest**

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	idModelInstance , status
Children	idModelInstance, status
Instance	<pre>&lt;w:changeModelInstanceStatusRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idModelInstance&gt;{1,1}&lt;/idModelInstance&gt;   &lt;status&gt;{1,1}&lt;/status&gt; &lt;/w:changeModelInstanceStatusRequest&gt;</pre>
Source	<pre>&lt;xs:element name="changeModelInstanceStatusRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="idModelInstance" type="xs:int" minOccurs="1" maxOccurs="1"/&gt;       &lt;xs:element name="status" type="m:status" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

**Element w:changeModelInstanceStatusResponse**

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	result
Children	result
Instance	<pre>&lt;w:changeModelInstanceStatusResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;result&gt;{1,1}&lt;/result&gt; &lt;/w:changeModelInstanceStatusResponse&gt;</pre>
Source	<pre>&lt;xs:element name="changeModelInstanceStatusResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="result" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

**Element w:defineInstanceRequest**

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	modelInstance
Children	modelInstance
Instance	<pre>&lt;w:defineInstanceRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;modelInstance&gt;{1,1}&lt;/modelInstance&gt; &lt;/w:defineInstanceRequest&gt;</pre>
Source	<pre>&lt;xs:element name="defineInstanceRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="modelInstance" type="i:modelInstance" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

**Element w:defineInstanceResponse**

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	result
Children	result
Instance	<pre>&lt;w:defineInstanceResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;result&gt;{1,1}&lt;/result&gt; &lt;/w:defineInstanceResponse&gt;</pre>
Source	<pre>&lt;xs:element name="defineInstanceResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="result" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

**Element w:getDataSummaryRequest**

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	idModelData
Children	idModelData
Instance	<pre>&lt;w:getDataSummaryRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idModelData&gt;{1,1}&lt;/idModelData&gt; &lt;/w:getDataSummaryRequest&gt;</pre>
Source	<pre>&lt;xs:element name="getDataSummaryRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="idModelData" type="xs:int" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

**Element w:getDataSummaryResponse**

Namespace	http://www.ime.iiasa.ac.at/enrima
Annotations	not complete yet, need to be discussed with the developers group
Diagram	
Properties	content: complex
Model	modelData , modelInstance*
Children	modelData, modelInstance
Instance	<pre>&lt;w:getDataSummaryResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;modelData&gt;{1,1}&lt;/modelData&gt;   &lt;modelInstance&gt;{0,unbounded}&lt;/modelInstance&gt; &lt;/w:getDataSummaryResponse&gt;</pre>
Source	<pre>&lt;xs:element name="getDataSummaryResponse"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;not complete yet, need to be discussed with the developers group&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;</pre>

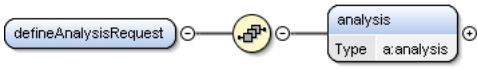


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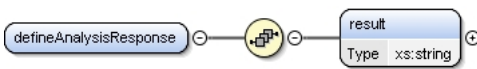
<xs:element name="modelData" type="i:modelData" minOccurs="1" maxOccurs="1"/>
<xs:element name="modelInstance" type="i:modelInstance" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

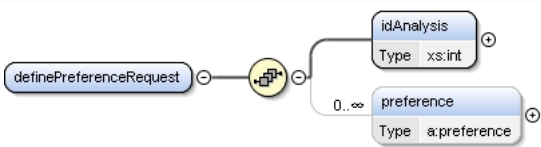
## Element w:defineAnalysisRequest

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	analysis
Children	analysis
Instance	<pre> &lt;w:defineAnalysisRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;analysis&gt;{1,1}&lt;/analysis&gt; &lt;/w:defineAnalysisRequest&gt; </pre>
Source	<pre> &lt;xs:element name="defineAnalysisRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="analysis" type="a:analysis" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

## Element w:defineAnalysisResponse

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	result
Children	result
Instance	<pre> &lt;w:defineAnalysisResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;result&gt;{1,1}&lt;/result&gt; &lt;/w:defineAnalysisResponse&gt; </pre>
Source	<pre> &lt;xs:element name="defineAnalysisResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="result" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

## Element w:definePreferenceRequest

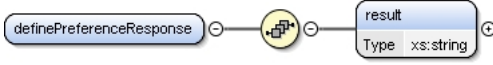
Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	idAnalysis , preference*
Children	idAnalysis, preference
Instance	<pre> &lt;w:definePreferenceRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idAnalysis&gt;{1,1}&lt;/idAnalysis&gt;   &lt;preference&gt;{0,unbounded}&lt;/preference&gt; &lt;/w:definePreferenceRequest&gt; </pre>
Source	<pre> &lt;xs:element name="definePreferenceRequest"&gt;   &lt;xs:complexType&gt; </pre>

```


<xs:sequence>
  <xs:element name="idAnalysis" type="xs:int" minOccurs="1" maxOccurs="1"/>
  <xs:element name="preference" type="a:preference" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

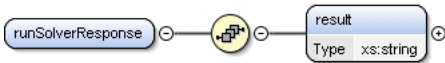
## Element w:definePreferenceResponse

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	result
Children	result
Instance	<pre> &lt;w:definePreferenceResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;result&gt;{1,1}&lt;/result&gt; &lt;/w:definePreferenceResponse&gt; </pre>
Source	<pre> &lt;xs:element name="definePreferenceResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="result" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

## Element w:runSolverRequest

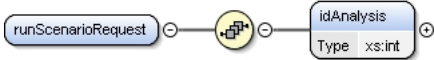
Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	idAnalysis
Children	idAnalysis
Instance	<pre> &lt;w:runSolverRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idAnalysis&gt;{1,1}&lt;/idAnalysis&gt; &lt;/w:runSolverRequest&gt; </pre>
Source	<pre> &lt;xs:element name="runSolverRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="idAnalysis" type="xs:int" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

## Element w:runSolverResponse

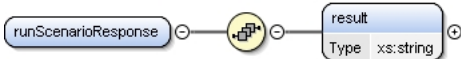
Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	result
Children	result
Instance	<pre> &lt;w:runSolverResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;result&gt;{1,1}&lt;/result&gt; &lt;/w:runSolverResponse&gt; </pre>
Source	<pre> &lt;xs:element name="runSolverResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="result" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

```
</xs:element>
```

## Element w:runScenarioRequest

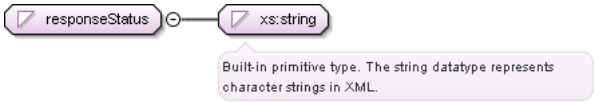
Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	idAnalysis
Children	idAnalysis
Instance	<pre>&lt;w:runScenarioRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idAnalysis&gt;{1,1}&lt;/idAnalysis&gt; &lt;/w:runScenarioRequest&gt;</pre>
Source	<pre>&lt;xs:element name="runScenarioRequest"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="idAnalysis" type="xs:int" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

## Element w:runScenarioResponse

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	result
Children	result
Instance	<pre>&lt;w:runScenarioResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;result&gt;{1,1}&lt;/result&gt; &lt;/w:runScenarioResponse&gt;</pre>
Source	<pre>&lt;xs:element name="runScenarioResponse"&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="result" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

## Simple Type(s)

### Simple Type w:responseStatus

Namespace	http://www.ime.iiasa.ac.at/enrima										
Diagram											
Type	restriction of xs:string										
Facets	<table border="1"> <tr><td>enumeration</td><td>OK</td></tr> <tr><td>enumeration</td><td>INVALID_ITERATOR</td></tr> <tr><td>enumeration</td><td>INVALID_SET_MEMBER</td></tr> <tr><td>enumeration</td><td>INVALID_VALUE</td></tr> <tr><td>enumeration</td><td>BOUND_VIOLATION</td></tr> </table>	enumeration	OK	enumeration	INVALID_ITERATOR	enumeration	INVALID_SET_MEMBER	enumeration	INVALID_VALUE	enumeration	BOUND_VIOLATION
enumeration	OK										
enumeration	INVALID_ITERATOR										
enumeration	INVALID_SET_MEMBER										
enumeration	INVALID_VALUE										
enumeration	BOUND_VIOLATION										
Used by	Elements w:storeEntityValuesResponse/status, w:storeSetMembersResponse/status										
Source	<pre>&lt;xs:simpleType name="responseStatus"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="OK"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt;</pre>										

```

<xs:enumeration value="INVALID_ITERATOR" />
<xs:enumeration value="INVALID_SET_MEMBER" />
<xs:enumeration value="INVALID_VALUE" />
<xs:enumeration value="BOUND_VIOLATION" />
</xs:restriction>
</xs:simpleType>

```

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

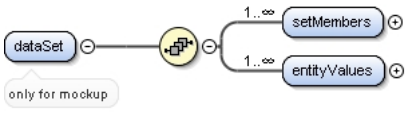
## Schema(s)

### Imported schema data.xsd

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

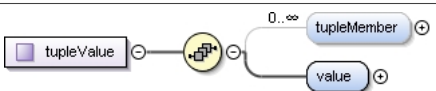
## Element(s)

### Element i:dataset

Namespace	http://www.ime.iiasa.ac.at/model/instance
Annotations	only for mockup
Diagram	
Properties	content: complex
Model	setMembers+, entityValues+
Children	entityValues, setMembers
Instance	<pre> &lt;i:dataset xmlns:i="http://www.ime.iiasa.ac.at/model/instance"&gt;   &lt;setMembers&gt;{1,unbounded}&lt;/setMembers&gt;   &lt;entityValues&gt;{1,unbounded}&lt;/entityValues&gt; &lt;/i:dataset&gt; </pre>
Source	<pre> &lt;xs:element name="dataset"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;only for mockup&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:complexType&gt;     &lt;xs:sequence&gt;       &lt;xs:element name="setMembers" type="i:setMembers" minOccurs="1" maxOccurs="unbounded"/&gt;       &lt;xs:element name="entityValues" type="i:entityValues" minOccurs="1" maxOccurs="unbounded"/&gt;     &lt;/xs:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt; </pre>

## Complex Type(s)

### Complex Type i:tupleValue

Namespace	http://www.ime.iiasa.ac.at/model/instance
Diagram	
Used by	Elements w:getEntityValuesResponse/tupleValue, w:storeEntityValuesRequest/tupleValue
Model	tupleMember*, value
Children	tupleMember, value
Source	<pre> &lt;xs:complexType name="tupleValue"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="tupleMember" type="i:memberDic" minOccurs="0" maxOccurs="unbounded"/&gt;     &lt;xs:element name="value" type="xs:double"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

**Complex Type i:memberDic**

Namespace	http://www.ime.iiasa.ac.at/model/instance
Diagram	
Used by	Elements i:tupleValue/tupleMember, w:getSetMembersRequest/tupleMember, w:getSetMembersResponse/member
Model	id , code , description{0,1}
Children	code, description, id
Source	<pre> &lt;xs:complexType name="memberDic"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="id" type="xs:int" /&gt;     &lt;xs:element name="code" type="xs:string" /&gt;     &lt;xs:element name="description" type="m:description" minOccurs="0" maxOccurs="1" /&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

**Complex Type i:setMembers**

Namespace	http://www.ime.iiasa.ac.at/model/instance
Diagram	
Used by	Elements i:dataSet/setMembers, w:storeSetMembersRequest/setMembers
Model	setShortName , tupleMembers*
Children	setShortName, tupleMembers
Source	<pre> &lt;xs:complexType name="setMembers"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="setShortName" type="xs:string" /&gt;     &lt;xs:element name="tupleMembers" type="i:tupleMembers" minOccurs="0" maxOccurs="unbounded" /&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

**Complex Type i:tupleMembers**

Namespace	http://www.ime.iiasa.ac.at/model/instance
Diagram	
Used by	Element i:setMembers/tupleMembers
Model	tuple{0,1} , members
Children	members, tuple
Source	<pre> &lt;xs:complexType name="tupleMembers"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="tuple" type="xs:string" minOccurs="0" maxOccurs="1"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;only for index set, tuple members are seperated by , for example:         AT,2007&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="members" type="xs:string" minOccurs="1" maxOccurs="1"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;set members are seperated by , for example: AT,AU,PL&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

**Complex Type i:modelInstance**

Namespace	http://www.ime.iiasa.ac.at/model/instance
Diagram	
Used by	Elements w:defineInstanceRequest/modelInstance, w:getDataSummaryResponse/modelInstance
Model	id , idModelSpec , idModelData , shortName{0,1} , name{0,1} , description{0,1} , status
Children	description, id, idModelData, idModelSpec, name, shortName, status
Source	<pre> &lt;xs:complexType name="modelInstance"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="id" type="xs:int"/&gt;     &lt;xs:element name="idModelSpec" type="xs:int" minOccurs="1" maxOccurs="1"/&gt;     &lt;xs:element name="idModelData" type="xs:int" minOccurs="1" maxOccurs="1"/&gt;     &lt;xs:element name="shortName" type="m:shortName" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="name" type="m:name" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="description" type="m:description" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="status" type="m:status" minOccurs="1" maxOccurs="1"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

**Complex Type i:modelData**

Namespace	http://www.ime.iiasa.ac.at/model/instance
Diagram	
Used by	Element w:getDataSummaryResponse/modelData
Model	id , idModelSpec+ , idParent{0,1} , description{0,1} , locked
Children	description, id, idModelSpec, idParent, locked
Source	<pre> &lt;xs:complexType name="modelData"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="id" type="xs:int"/&gt;     &lt;xs:element name="idModelSpec" type="xs:int" minOccurs="1" maxOccurs="unbounded"/&gt;     &lt;xs:element name="idParent" type="xs:int" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="description" type="m:description" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="locked" type="xs:boolean" minOccurs="1" maxOccurs="1"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

**Complex Type i:entityValues**

Namespace	http://www.ime.iiasa.ac.at/model/instance
Annotations	only for mockup
Diagram	
Used by	Element i:dataSet/entityValues
Model	entityShortName , tupleValues*

Children	entityShortName, tupleValues
Source	<pre> &lt;xs:complexType name="entityValues"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;only for mockup&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="entityShortName" type="xs:string"/&gt;     &lt;xs:element name="tupleValues" type="i:tupleValues" minOccurs="0" maxOccurs="unbounded"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

## Complex Type i:tupleValues

Namespace	http://www.ime.iiasa.ac.at/model/instance
Annotations	only for mockup
Diagram	
Used by	Element i:entityValues/tupleValues
Model	tuple{0,1} , value
Children	tuple, value
Source	<pre> &lt;xs:complexType name="tupleValues"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;only for mockup&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="tuple" type="xs:string" minOccurs="0" maxOccurs="1"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;tuple members are separated by , for example: AT,2007&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="value" type="xs:double"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

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

## Complex Type(s)

### Complex Type m:modelSpec

Namespace	http://www.ime.iiasa.ac.at/model/spec
Diagram	
Used by	Element w:getSMSResponse/modelSpec

Model	id , shortName , name{0,1} , description{0,1} , status , setSpec+ , entitySpec+
Children	description, entitySpec, id, name, setSpec, shortName, status
Source	<pre> &lt;xs:complexType name="modelSpec"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="id" type="xs:int"/&gt;     &lt;xs:element name="shortName" type="m:shortName"/&gt;     &lt;xs:element name="name" type="m:name" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="description" type="m:description" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="status" type="m:status"/&gt;     &lt;xs:element name="setSpec" type="m:setSpec" maxOccurs="unbounded"/&gt;     &lt;xs:element name="entitySpec" type="m:entitySpec" maxOccurs="unbounded"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

## Complex Type m:setSpec

Namespace	http://www.ime.iiasa.ac.at/model/spec
Diagram	
Used by	Element m:modelSpec/setSpec
Model	id , idParent , shortName , name{0,1} , description{0,1} , type , idx{0,1} , iteratorContainer{0,1}
Children	description, id, idParent, idx, iteratorContainer, name, shortName, type
Source	<pre> &lt;xs:complexType name="setSpec"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="id" type="xs:int"/&gt;     &lt;xs:element name="idParent" type="xs:int"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;only for sub set&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="shortName" type="m:shortName"/&gt;     &lt;xs:element name="name" type="m:name" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="description" type="m:description" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="type" type="m:setSpecType"/&gt;     &lt;xs:element name="idx" type="xs:string" minOccurs="0" maxOccurs="1"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;default index name (for main set only)&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="iteratorContainer" type="m:iteratorContainer" minOccurs="0" maxOccurs="1"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;for index set only&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

## Complex Type m:iteratorContainer

Namespace	http://www.ime.iiasa.ac.at/model/spec
Diagram	
Used by	Elements m:entitySpec/iteratorContainer, m:setSpec/iteratorContainer



Model	idSetSpec+
Children	idSetSpec
Source	<pre> &lt;xs:complexType name="iteratorContainer"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="idSetSpec" type="xs:int" minOccurs="1" maxOccurs="unbounded"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

## Complex Type m:entitySpec

Namespace	http://www.ime.iiasa.ac.at/model/spec
Diagram	
Used by	Elements m:modelSpec/entitySpec, w:getEntityValuesResponse/entitySpec
Model	id , shortName , name{0,1} , description{0,1} , idLowerBound{0,1} , idUpperBound{0,1} , constantValue{0,1} , iteratorContainer{0,1} , role{0,1} , mathType{0,1} , unit{0,1} , formula{0,1} , source{0,1} , group*
Children	constantValue, description, formula, group, id, idLowerBound, idUpperBound, iteratorContainer, mathType, name, role, shortName, source, unit
Source	<pre> &lt;xs:complexType name="entitySpec"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="id" type="xs:int"/&gt;     &lt;xs:element name="shortName" type="m:shortName"/&gt;     &lt;xs:element name="name" type="m:name" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="description" type="m:description" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="idLowerBound" type="xs:int" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="idUpperBound" type="xs:int" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="constantValue" type="xs:double" minOccurs="0" maxOccurs="1"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;optional, only for constant type of entity&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="iteratorContainer" type="m:iteratorContainer" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="role" type="m:entityRole" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="mathType" type="m:mathType" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="unit" type="xs:string" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="formula" type="xs:string" minOccurs="0" maxOccurs="1"/&gt;     &lt;xs:element name="source" type="xs:string" minOccurs="0" maxOccurs="1"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;specification of the data source (optional, but very useful for organizing data management processes&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;     &lt;xs:element name="group" type="m:group" minOccurs="0" maxOccurs="∞"&gt;       &lt;xs:annotation&gt;         &lt;xs:documentation&gt;for grouping parameters (optional, but very useful for management of the data access rights).&lt;/xs:documentation&gt;       &lt;/xs:annotation&gt;     &lt;/xs:element&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

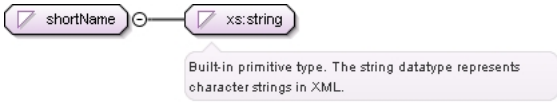
```

</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>

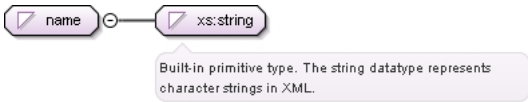
```

## Simple Type(s)

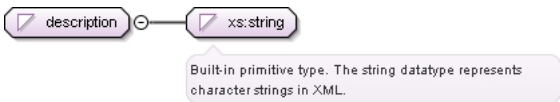
### Simple Type **m:shortName**

Namespace	http://www.ime.iiasa.ac.at/model/spec				
Diagram					
Type	restriction of xs:string				
Facets	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>8</td></tr> </table>	minLength	1	maxLength	8
minLength	1				
maxLength	8				
Used by	Elements a:analysis/shortName, i:modelInstance/shortName, m:entitySpec/shortName, m:modelSpec/shortName, m:setSpec/shortName				
Source	<pre> &lt;xs:simpleType name="shortName"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:minLength value="1"/&gt;     &lt;xs:maxLength value="8"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>				

### Simple Type **m:name**

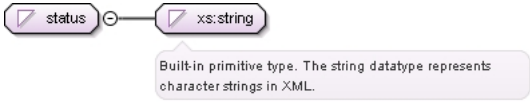
Namespace	http://www.ime.iiasa.ac.at/model/spec				
Diagram					
Type	restriction of xs:string				
Facets	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>32</td></tr> </table>	minLength	1	maxLength	32
minLength	1				
maxLength	32				
Used by	Elements a:analysis/name, a:task/name, i:modelInstance/name, m:entitySpec/name, m:modelSpec/name, m:setSpec/name				
Source	<pre> &lt;xs:simpleType name="name"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:minLength value="1"/&gt;     &lt;xs:maxLength value="32"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>				

### Simple Type **m:description**

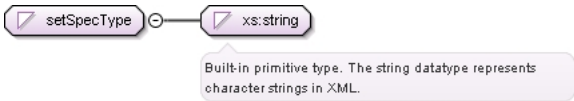
Namespace	http://www.ime.iiasa.ac.at/model/spec				
Diagram					
Type	restriction of xs:string				
Facets	<table> <tr> <td>minLength</td><td>1</td></tr> <tr> <td>maxLength</td><td>512</td></tr> </table>	minLength	1	maxLength	512
minLength	1				
maxLength	512				
Used by	Elements a:analysis/description, a:task/description, i:memberDic/description, i:modelData/description, i:modelInstance/description, m:entitySpec/description, m:modelSpec/description, m:setSpec/description				

Source	<pre> &lt;xs:simpleType name="description"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:minLength value="1" /&gt;     &lt;xs:maxLength value="512" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>
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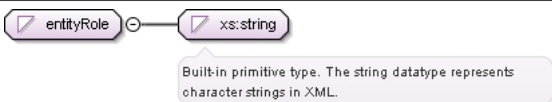
### Simple Type **m:status**

Namespace	http://www.ime.iiasa.ac.at/model/spec	
Diagram		
Type	restriction of xs:string	
Facets	enumeration	EDIT
	enumeration	TEST
	enumeration	COMMITTED
Used by	Elements	i:modelInstance/status, m:modelSpec/status, w:changeModelInstanceStatusRequest/status, w:changeSMSStatusRequest/status
Source	<pre> &lt;xs:simpleType name="status"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="EDIT" /&gt;     &lt;xs:enumeration value="TEST" /&gt;     &lt;xs:enumeration value="COMMITTED" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>	

### Simple Type **m:setSpecType**

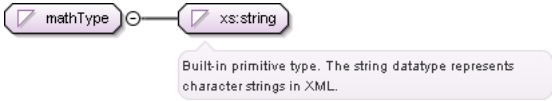
Namespace	http://www.ime.iiasa.ac.at/model/spec	
Diagram		
Type	restriction of xs:string	
Facets	enumeration	COLLECTION
	enumeration	SEQUENCE
Used by	Element	m:setSpec/type
Source	<pre> &lt;xs:simpleType name="setSpecType"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="COLLECTION" /&gt;     &lt;xs:enumeration value="SEQUENCE" /&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>	

### Simple Type **m:entityRole**

Namespace	http://www.ime.iiasa.ac.at/model/spec	
Diagram		
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	any type of variable: DECISION_VAR, EXTERNAL_DECISION_VAR, OUTCOME_VAR, or AUXILIARY_VAR
	enumeration	A_FORMULA	any type of formula: ASSIGNMENT or CONSTRAINT
Used by	Element	m:entitySpec/role	
Source	<pre> &lt;xs:simpleType name="entityRole"&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="CONSTANT" /&gt;     &lt;xs:enumeration value="PARAMETER" /&gt;     &lt;xs:enumeration value="DECISION_VAR" /&gt;     &lt;xs:enumeration value="EXTERNAL_DECISION_VAR" /&gt;     &lt;xs:enumeration value="OUTCOME_VAR" /&gt;     &lt;xs:enumeration value="AUXILIARY_VAR" /&gt;     &lt;xs:enumeration value="ASSIGNMENT" /&gt;     &lt;xs:enumeration value="CONSTRAINT" /&gt;     &lt;xs:enumeration value="A_VARIABLE" /&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt;any type of variable: DECISION_VAR, EXTERNAL_DECISION_VAR, OUTCOME_VAR, or AUXILIARY_VAR&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;/xs:restriction&gt;   &lt;xs:enumeration value="A_FORMULA"&gt;     &lt;xs:annotation&gt;       &lt;xs:documentation&gt;any type of formula: ASSIGNMENT or CONSTRAINT&lt;/xs:documentation&gt;     &lt;/xs:annotation&gt;   &lt;/xs:enumeration&gt; &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>		

### Simple Type m:mathType

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

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

### Schema(s)

#### Imported schema ana.xsd

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

### Complex Type(s)

#### Complex Type a:analysis

Namespace	http://www.ime.iiasa.ac.at/model/analysis		
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Diagram	
Used by	Element w:defineAnalysisRequest/analysis
Model	id , idModelInstance , shortName , name{0,1} , description{0,1}
Children	description, id, idModelInstance, name, shortName
Source	<pre> &lt;xs:complexType name="analysis"&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="id" type="xs:int" /&gt;     &lt;xs:element name="idModelInstance" type="xs:int" minOccurs="1" maxOccurs="1" /&gt;     &lt;xs:element name="shortName" type="m:shortName" /&gt;     &lt;xs:element name="name" type="m:name" minOccurs="0" maxOccurs="1" /&gt;     &lt;xs:element name="description" type="m:description" minOccurs="0" maxOccurs="1" /&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

## Complex Type a: preference

Namespace	http://www.ime.iiasa.ac.at/model/analysis
Annotations	need to be discussed within the developers group
Diagram	
Used by	Element w:definePreferenceRequest/preference
Model	idEntitySpec , preferenceType , prefValue
Children	idEntitySpec, prefValue, preferenceType
Source	<pre> &lt;xs:complexType name="preference"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;need to be discussed within the developers group&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:sequence&gt;     &lt;xs:element name="idEntitySpec" type="xs:int" minOccurs="1" maxOccurs="1" /&gt;     &lt;xs:element name="preferenceType" type="a:preferenceType" minOccurs="1" maxOccurs="1" /&gt;     &lt;xs:element name="prefValue" type="xs:double" minOccurs="1" maxOccurs="1" /&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

## Complex Type a: task

Namespace	http://www.ime.iiasa.ac.at/model/analysis
Annotations	need to be discussed within the developers group
Diagram	
Model	id , idAnalysis , idSolver , name{0,1} , description{0,1} , process
Children	description, id, idAnalysis, idSolver, name, process
Source	<pre> &lt;xs:complexType name="task"&gt;   &lt;xs:annotation&gt; </pre>

```

<xs:documentation>need to be discussed within the developers group</xs:documentation>
</xs:annotation>
<xs:sequence>
  <xs:element name="id" type="xs:int"/>
  <xs:element name="idAnalysis" type="xs:int" minOccurs="1" maxOccurs="1"/>
  <xs:element name="idSolver" type="xs:int" minOccurs="1" maxOccurs="1"/>
  <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="process" type="xs:string" minOccurs="1" maxOccurs="1"/>
</xs:sequence>
</xs:complexType>

```

## Simple Type(s)

### Simple Type a:preferenceType

Namespace	http://www.ime.iiasa.ac.at/model/analysis								
Annotations	need to be discussed within the developers group								
Diagram									
Type	restriction of xs:string								
Facets	<table> <tr><td>enumeration</td><td>MIN</td></tr> <tr><td>enumeration</td><td>MAX</td></tr> <tr><td>enumeration</td><td>LOWER_BND</td></tr> <tr><td>enumeration</td><td>UPPER_BND</td></tr> </table>	enumeration	MIN	enumeration	MAX	enumeration	LOWER_BND	enumeration	UPPER_BND
enumeration	MIN								
enumeration	MAX								
enumeration	LOWER_BND								
enumeration	UPPER_BND								
Used by	Element a:preference/preferenceType								
Source	<pre> &lt;xs:simpleType name="preferenceType"&gt;   &lt;xs:annotation&gt;     &lt;xs:documentation&gt;need to be discussed within the developers group&lt;/xs:documentation&gt;   &lt;/xs:annotation&gt;   &lt;xs:restriction base="xs:string"&gt;     &lt;xs:enumeration value="MIN"/&gt;     &lt;xs:enumeration value="MAX"/&gt;     &lt;xs:enumeration value="LOWER_BND"/&gt;     &lt;xs:enumeration value="UPPER_BND"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>								