

# Schema documentation for wss.xsd

september 13, 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
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	idModelData , entityShortName
Children	entityShortName, idModelData
Instance	<pre>&lt;w:getEntityValuesRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idModelData&gt;{1,1}&lt;/idModelData&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="idModelData" 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:sequence&gt;   &lt;/xs:complexType&gt; &lt;/xs:element&gt;</pre>

```

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

```

## Element w:getSetMembersRequest

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	idModelData , setShortName , tupleMember*
Children	idModelData, setShortName, tupleMember
Instance	<pre> &lt;w:getSetMembersRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;idModelData&gt;{1,1}&lt;/idModelData&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="idModelData" 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	
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	

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>

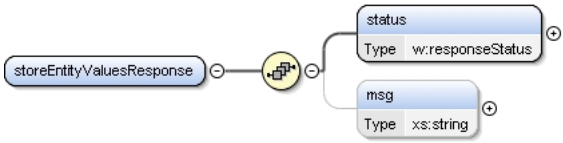
### Element w:storeSetMembersResponse

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>

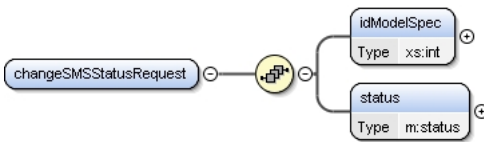
### Element w:storeEntityValuesRequest

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>

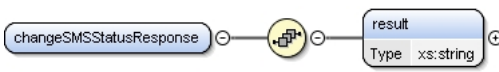
**Element w:storeEntityValuesResponse**

Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
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	
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	
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;</pre>

```

<xs:sequence>
  <xs:element name="result" type="xs:string" minOccurs="1" maxOccurs="1"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

### 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:defineModelDataRequest

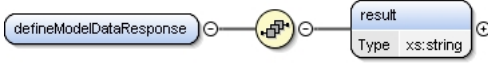
Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	modelData
Children	modelData
Instance	<pre> &lt;w:defineModelDataRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;modelData&gt;{1,1}&lt;/modelData&gt; &lt;/w:defineModelDataRequest&gt; </pre>
Source	<pre>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

```


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

```

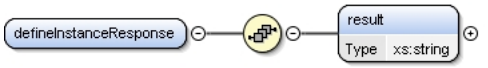
### Element w:defineModelDataResponse

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

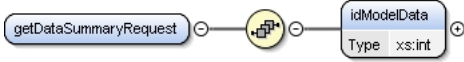
### Element w:defineInstanceResponse

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>

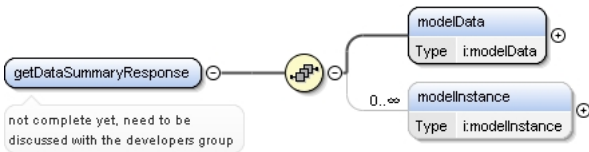


```
</xs:element>
```

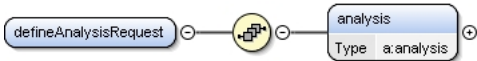
## Element w:getDataSummaryRequest

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

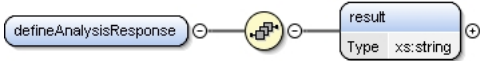
Namespace	http://www.ime.iiasa.ac.at/enrima
Annotations	not complete yet, need to be discussed with the developers group
Diagram	
Properties	content: complex
Model	modelData , modelInstance*
Children	modelData, modelInstance
Instance	<pre>&lt;w:getDataSummaryResponse xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;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

## Element w:defineAnalysisRequest

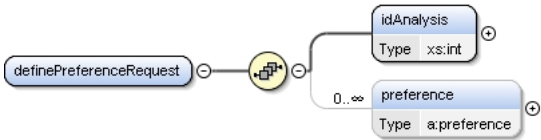
Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	
Properties	content: complex
Model	analysis
Children	analysis
Instance	<pre>&lt;w:defineAnalysisRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &lt;analysis&gt;{1,1}&lt;/analysis&gt;</pre>

	<code>&lt;/w:defineAnalysisRequest&gt;</code>
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>

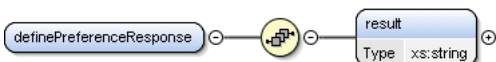
## Element w:defineAnalysisResponse

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

## 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; </pre>

	<pre>&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	<pre>graph LR     runSolverRequest --&gt; idAnalysis[idAnalysis]     idAnalysis --&gt; xsInt[Type xs:int]</pre>
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	<pre>graph LR     runSolverResponse --&gt; result[result]     result --&gt; xsString[Type xs:string]</pre>
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>

## Element w:runScenarioRequest

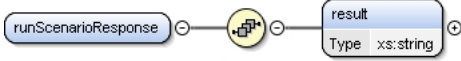
Namespace	http://www.ime.iiasa.ac.at/enrima
Diagram	<pre>graph LR     runScenarioRequest --&gt; idAnalysis[idAnalysis]     idAnalysis --&gt; xsInt[Type xs:int]</pre>
Properties	content: complex
Model	idAnalysis
Children	idAnalysis
Instance	<pre>&lt;w:runScenarioRequest xmlns:w="http://www.ime.iiasa.ac.at/enrima"&gt;   &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;</pre>

```

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

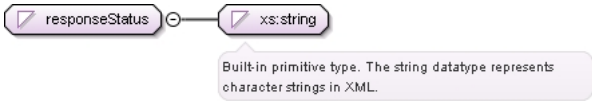
```

## 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> <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:enumeration value="INVALID_ITERATOR"/&gt;     &lt;xs:enumeration value="INVALID_SET_MEMBER"/&gt;     &lt;xs:enumeration value="INVALID_VALUE"/&gt;     &lt;xs:enumeration value="BOUND_VIOLATION"/&gt;   &lt;/xs:restriction&gt; &lt;/xs:simpleType&gt; </pre>										

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

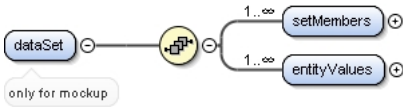
## Schema(s)

### Imported schema data.xsd

Namespace	http://www.ime.iiasa.ac.at/model/instance				
Properties	<table> <tr><td>attribute form default:</td><td>unqualified</td></tr> <tr><td>element form default:</td><td>unqualified</td></tr> </table>	attribute form default:	unqualified	element form default:	unqualified
attribute form default:	unqualified				
element form default:	unqualified				

## Element(s)

### Element i: dataSet

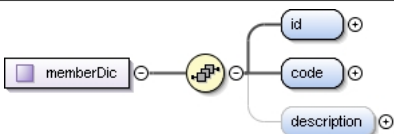
Namespace	http://www.ime.iiasa.ac.at/model/instance
Annotations	only for mockup
Diagram	
Properties	content: complex
Model	setMembers+, entityValues+
Children	entityValues, setMembers
Instance	<pre>&lt;i:dataSet xmlns:i="http://www.ime.iiasa.ac.at/model/instance"&gt;   &lt;setMembers&gt;{1,unbounded}&lt;/setMembers&gt;   &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;</pre>

```

<xs:element name="id" type="xs:int"/>
<xs:element name="code" type="xs:string"/>
<xs:element name="description" type="m:description" minOccurs="0" maxOccurs="1"/>
</xs:sequence>
</xs:complexType>

```

### 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 separated 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 separated 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:modelData

Namespace	http://www.ime.iiasa.ac.at/model/instance
Diagram	
Used by	Elements w:defineModelDataRequest/modelData, 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:modelInstance

Namespace	http://www.ime.iiasa.ac.at/model/instance
Diagram	<pre> graph LR     modelInstance[modelInstance] --- choice(( ))     choice --- id[id]     choice --- idModelSpec[idModelSpec]     choice --- idModelData[idModelData]     choice --- shortName[shortName]     choice --- name[name]     choice --- description[description]     choice --- status[status] </pre>
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:entityValues

Namespace	http://www.ime.iiasa.ac.at/model/instance
Annotations	only for mockup
Diagram	<pre> graph LR     entityValues[entityValues] --- choice(( ))     choice --- entityShortName[entityShortName]     choice --- tupleValues[tupleValues]     choice --- count[0..∞] </pre>
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
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Annotations	only for mockup
Diagram	
Used by	Element <code>i:entityValues/tupleValues</code>
Model	<code>tuple{0,1}</code> , <code>value</code>
Children	<code>tuple</code> , <code>value</code>
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 seperated 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 <code>w:getSMSResponse/modelSpec</code>
Model	<code>id</code> , <code>shortName</code> , <code>name{0,1}</code> , <code>description{0,1}</code> , <code>status</code> , <code>setSpec+</code> , <code>entitySpec+</code>
Children	<code>description</code> , <code>entitySpec</code> , <code>id</code> , <code>name</code> , <code>setSpec</code> , <code>shortName</code> , <code>status</code>
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{0,1}, 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" minOccurs="0" maxOccurs="1"&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>

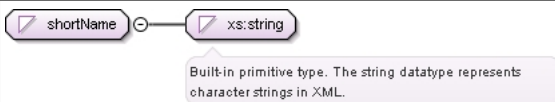
**Complex Type m:entitySpec**

Namespace	http://www.ime.iiasa.ac.at/model/spec
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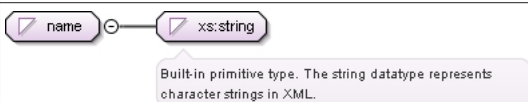
Diagram	
Used by	Elements <code>m:modelSpec/entitySpec</code> , <code>w:getEntityValuesResponse/entitySpec</code>
Model	<code>id</code> , <code>shortName</code> , <code>name{0,1}</code> , <code>description{0,1}</code> , <code>idLowerBound{0,1}</code> , <code>idUpperBound{0,1}</code> , <code>constantValue{0,1}</code> , <code>iteratorContainer{0,1}</code> , <code>role{0,1}</code> , <code>mathType{0,1}</code> , <code>unit{0,1}</code> , <code>formula{0,1}</code> , <code>source{0,1}</code> , <code>group*</code>
Children	<code>constantValue</code> , <code>description</code> , <code>formula</code> , <code>group</code> , <code>id</code> , <code>idLowerBound</code> , <code>idUpperBound</code> , <code>iteratorContainer</code> , <code>mathType</code> , <code>name</code> , <code>role</code> , <code>shortName</code> , <code>source</code> , <code>unit</code>
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="xs:string" minOccurs="0" maxOccurs="unbounded"&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>

## Simple Type(s)

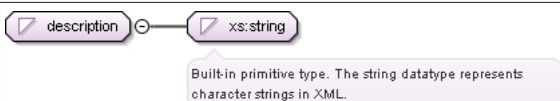
### Simple Type `m:shortName`

Namespace	http://www.ime.iiasa.ac.at/model/spec		
Diagram			
Type	restriction of xs:string		
Facets	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	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`

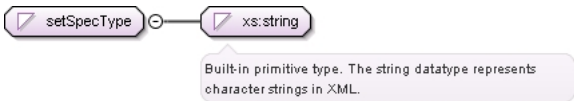
Namespace	http://www.ime.iiasa.ac.at/model/spec		
Diagram			
Type	restriction of xs:string		
Facets	minLength	1	
	maxLength	512	
Used by	Elements	a:analysis/description, a:task/description, i:memberDic/description, i:modelData/description, i:modelInstance/description, m:entitySpec/description, m:modelSpec/description,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

### Simple Type `m:status`

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

Diagram							
Type	restriction of xs:string						
Facets	<table border="1"> <tr><td>enumeration</td><td>EDIT</td></tr> <tr><td>enumeration</td><td>TEST</td></tr> <tr><td>enumeration</td><td>COMMITTED</td></tr> </table>	enumeration	EDIT	enumeration	TEST	enumeration	COMMITTED
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	<table border="1"> <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: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	<xs:simpleType name="entityRole">		

```

<xs:restriction base="xs:string">
  <xs:enumeration value="CONSTANT" />
  <xs:enumeration value="PARAMETER" />
  <xs:enumeration value="DECISION_VAR" />
  <xs:enumeration value="EXTERNAL_DECISION_VAR" />
  <xs:enumeration value="OUTCOME_VAR" />
  <xs:enumeration value="AUXILIARY_VAR" />
  <xs:enumeration value="ASSIGNMENT" />
  <xs:enumeration value="CONSTRAINT" />
  <xs:enumeration value="A_VARIABLE" />
  <xs:annotation>
    <xs:documentation>any type of variable: DECISION_VAR, EXTERNAL_DECISION_VAR, OUTCOME_VAR, or
    AUXILIARY_VAR</xs:documentation>
  </xs:annotation>
</xs:enumeration>
  <xs:enumeration value="A_FORMULA" />
  <xs:annotation>
    <xs:documentation>any type of formula: ASSIGNMENT or CONSTRAINT</xs:documentation>
  </xs:annotation>
</xs:enumeration>
</xs:restriction>
</xs:simpleType>

```

### Simple Type **m:mathType**

Namespace	http://www.ime.iiasa.ac.at/model/spec						
Diagram							
Type	restriction of xs:string						
Facets	<table> <tr><td>enumeration</td><td>INTEGER</td></tr> <tr><td>enumeration</td><td>BINARY</td></tr> <tr><td>enumeration</td><td>REAL</td></tr> </table>	enumeration	INTEGER	enumeration	BINARY	enumeration	REAL
enumeration	INTEGER						
enumeration	BINARY						
enumeration	REAL						
Used by	Element <b>m:entitySpec/mathType</b>						
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	<table> <tr><td>attribute form default:</td><td>unqualified</td></tr> <tr><td>element form default:</td><td>unqualified</td></tr> </table>	attribute form default:	unqualified	element form default:	unqualified
attribute form default:	unqualified				
element form default:	unqualified				

### Complex Type(s)

#### Complex Type **a:analysis**

Namespace	http://www.ime.iiasa.ac.at/model/analysis
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;     &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="id" type="xs:int"/&gt;     &lt;xs:element name="idAnalysis" type="xs:int" minOccurs="1" maxOccurs="1"/&gt;     &lt;xs:element name="idSolver" type="xs:int" minOccurs="1" 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="process" type="xs:string" minOccurs="1" maxOccurs="1"/&gt;   &lt;/xs:sequence&gt; &lt;/xs:complexType&gt; </pre>

## 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	<pre> graph LR     A[preferenceType] --- B[xs:string]     A --- C[need to be discussed within the developers group]     B --- D[Built-in primitive type. The string datatype represents character strings in XML.]   </pre>								
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>								