

Schema documentation for kmConfig.xsd

september 18, 2013

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
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Resource hierarchy:

Legend:  Import,  Include,  Redefine,  Cycle detected

kmConfig.xsd


 node.xsd

 sensor.xsd

 variable.xsd

 common.xsd

 topic.xsd

 channel.xsd

-  common.xsd
-  actuator.xsd
-  variable.xsd
-  controller.xsd
-  variable.xsd

Namespace: "http://www.example.org/km"

Schema(s)

Main schema kmConfig.xsd

Namespace	http://www.example.org/km				
Properties	<table border="0"> <tr> <td>attribute form default:</td> <td>unqualified</td> </tr> <tr> <td>element form default:</td> <td>qualified</td> </tr> </table>	attribute form default:	unqualified	element form default:	qualified
attribute form default:	unqualified				
element form default:	qualified				

Included schema node.xsd

Namespace	http://www.example.org/km				
Properties	<table border="0"> <tr> <td>attribute form default:</td> <td>unqualified</td> </tr> <tr> <td>element form default:</td> <td>qualified</td> </tr> </table>	attribute form default:	unqualified	element form default:	qualified
attribute form default:	unqualified				
element form default:	qualified				

Included schema sensor.xsd

Namespace	http://www.example.org/km				
Properties	<table border="0"> <tr> <td>attribute form default:</td> <td>unqualified</td> </tr> <tr> <td>element form default:</td> <td>qualified</td> </tr> </table>	attribute form default:	unqualified	element form default:	qualified
attribute form default:	unqualified				
element form default:	qualified				

Included schema variable.xsd

Namespace	http://www.example.org/km				
Properties	<table border="0"> <tr> <td>attribute form default:</td> <td>unqualified</td> </tr> <tr> <td>element form default:</td> <td>qualified</td> </tr> </table>	attribute form default:	unqualified	element form default:	qualified
attribute form default:	unqualified				
element form default:	qualified				

Included schema common.xsd

Namespace	http://www.example.org/km				
Properties	<table border="0"> <tr> <td>attribute form default:</td> <td>unqualified</td> </tr> <tr> <td>element form default:</td> <td>qualified</td> </tr> </table>	attribute form default:	unqualified	element form default:	qualified
attribute form default:	unqualified				
element form default:	qualified				

Included schema topic.xsd

Namespace	http://www.example.org/km				
Properties	<table border="0"> <tr> <td>attribute form default:</td> <td>unqualified</td> </tr> <tr> <td>element form default:</td> <td>qualified</td> </tr> </table>	attribute form default:	unqualified	element form default:	qualified
attribute form default:	unqualified				
element form default:	qualified				

Included schema channel.xsd

Namespace	http://www.example.org/km				
Properties	<table border="0"> <tr> <td>attribute form default:</td> <td>unqualified</td> </tr> <tr> <td>element form default:</td> <td>qualified</td> </tr> </table>	attribute form default:	unqualified	element form default:	qualified
attribute form default:	unqualified				
element form default:	qualified				

Included schema actuator.xsd

Namespace	http://www.example.org/km
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Properties	attribute form default: unqualified
	element form default: qualified

Included schema controller.xsd

Namespace	http://www.example.org/km
Properties	attribute form default: unqualified
	element form default: qualified

Element(s)

Element km:kmConfig

Namespace	http://www.example.org/km
Diagram	
Properties	content: complex
Model	km:node*, km:topic*
Children	km:node, km:topic
Instance	<pre><km:kmConfig xmlns:km="http://www.example.org/km"> <km:node id="">{0,unbounded}</km:node> <km:topic id="">{0,unbounded}</km:topic> </km:kmConfig></pre>
Source	<pre><element name="kmConfig"> <complexType> <sequence> <element name="node" type="km:typeNode" maxOccurs="unbounded" minOccurs="0"/> <element name="topic" type="km:typeTopic" maxOccurs="unbounded" minOccurs="0"/> </sequence> </complexType> </element></pre>

Element km:kmConfig / km:node

Namespace	http://www.example.org/km
Diagram	
Type	node:typeNode
Properties	content: complex
	minOccurs: 0
	maxOccurs: unbounded
Model	node:name, node:channel*, node:sensor*, node:actuator*, node:controller*, node:topic*
Children	node:actuator, node:channel, node:controller, node:name, node:sensor, node:topic
Instance	<pre><km:node id="" xmlns:km="http://www.example.org/km"> <km:name>{1,1}</km:name></pre>

	<pre><km:channel id="">{0,unbounded}</km:channel> <km:sensor id="">{0,unbounded}</km:sensor> <km:actuator id="">{0,unbounded}</km:actuator> <km:controller id="">{0,unbounded}</km:controller> <km:topic id="">{0,unbounded}</km:topic> </km:node></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	node:nodeID			required
Source	<pre><element name="node" type="km:typeNode" maxOccurs="unbounded" minOccurs="0"/></pre>				

Element node:typeNode / node:name

Namespace	http://www.example.org/km				
Diagram					
Type	common:kmStringName				
Properties	content:	simple			
Source	<pre><element name="name" type="node:kmStringName"/></pre>				

Element node:typeNode / node:channel

Namespace	http://www.example.org/km				
Diagram					
Type	channel:typeChannel				
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	unbounded			
Model	channel:typeIO				
Children	channel:typeIO				
Instance	<pre><node:channel id="" xmlns:node="http://www.example.org/km"> <node:typeIO{1,1}</node:typeIO> </node:channel></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	channel:channelID			required
Source	<pre><element name="channel" type="node:typeChannel" maxOccurs="unbounded" minOccurs="0"/></pre>				

Element channel:typeChannel / channel:typeIO

Namespace	http://www.example.org/km				
Diagram					
Type	channel:typeIO				
Properties	content:	complex			
Model	channel:ND channel:IN channel:OUT				
Children	channel:IN, channel:ND, channel:OUT				
Instance	<pre><channel:typeIO xmlns:channel="http://www.example.org/km"></pre>				

	<pre><channel:ND>{1,1}</channel:ND> <channel:IN>{1,1}</channel:IN> <channel:OUT>{1,1}</channel:OUT> </channel:typeIO></pre>
Source	<code><element name="typeIO" type="channel:typeIO" /></code>

Element channel:typeIO / channel:ND

Namespace	http://www.example.org/km
Diagram	
Type	common:label_ND
Properties	content: simple
Facets	maxLength 0
Source	<code><element name="ND" type="channel:label_ND" /></code>

Element channel:typeIO / channel:IN

Namespace	http://www.example.org/km
Diagram	
Type	channel:typeIO_IN
Properties	content: simple
Source	<code><element name="IN" type="channel:typeIO_IN" /></code>

Element channel:typeIO / channel:OUT

Namespace	http://www.example.org/km
Diagram	
Type	channel:typeIO_OUT
Properties	content: simple
Source	<code><element name="OUT" type="channel:typeIO_OUT" /></code>

Element node:typeNode / node:sensor

Namespace	http://www.example.org/km
Diagram	
Type	sensor:typeSensor
Properties	content: complex
	minOccurs: 0
	maxOccurs: unbounded
Model	sensor:name , sensor:vlist , sensor:adequation , sensor:fusion
Children	sensor:adequation, sensor:fusion, sensor:name, sensor:vlist
Instance	<pre><node:sensor id="" xmlns:node="http://www.example.org/km"> <node:name>{1,1}</node:name> <node:vlist>{1,1}</node:vlist> <node:adequation>{1,1}</node:adequation></pre>

	<code><node:fusion>{1,1}</node:fusion></code> <code></node:sensor></code>				
Attributes	QName	Type	Fixed	Default	Use
	id	sensor:sensorID			required
Source	<code><element name="sensor" type="node:typeSensor" maxOccurs="unbounded" minOccurs="0"/></code>				

Element `sensor:typeSensor / sensor:name`

Namespace	http://www.example.org/km				
Diagram					
Type	common:kmStringName				
Properties	content:	simple			
Source	<code><element name="name" type="sensor:kmStringName" /></code>				

Element `sensor:typeSensor / sensor:vlist`

Namespace	http://www.example.org/km				
Diagram					
Properties	content:	complex			
Model	sensor:variable*				
Children	sensor:variable				
Instance	<code><sensor:vlist xmlns:sensor="http://www.example.org/km"></code> <code><sensor:variable name="">{0,unbounded}</sensor:variable></code> <code></sensor:vlist></code>				
Source	<code><element name="vlist"></code> <code><complexType></code> <code><sequence></code> <code><element name="variable" type="sensor:typeVariable" maxOccurs="unbounded" minOccurs="0"/></code> <code></sequence></code> <code></complexType></code> <code></element></code>				

Element `sensor:typeSensor / sensor:vlist / sensor:variable`

Namespace	http://www.example.org/km				
Diagram					
Type	var:typeVariable				
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	unbounded			
Model	var:configuration , var:connections				
Children	var:configuration, var:connections				
Instance	<code><sensor:variable name="" xmlns:sensor="http://www.example.org/km"></code> <code><sensor:configuration>{1,1}</sensor:configuration></code> <code><sensor:connections>{1,1}</sensor:connections></code> <code></sensor:variable></code>				
Attributes	QName	Type	Fixed	Default	Use
	name	string			required
Source	<code><element name="variable" type="sensor:typeVariable" maxOccurs="unbounded" minOccurs="0"/></code>				

Element var:typeVariable / var:configuration

Namespace	http://www.example.org/km
Diagram	<p>Built-in primitive type. The string datatype represents character strings in XML.</p>
Type	string
Properties	content: simple
Source	<code><element name="configuration" type="string"/></code>

Element var:typeVariable / var:connections

Namespace	http://www.example.org/km
Diagram	
Type	var:variableConnections
Properties	content: complex
Model	var:idChannel{0,1} , var:idTopic*
Children	var:idChannel, var:idTopic
Instance	<pre><var:connections xmlns:var="http://www.example.org/km"> <var:idChannel id="">{0,1}</var:idChannel> <var:idTopic id="" location="" mode="">{0,unbounded}</var:idTopic> </var:connections></pre>
Source	<code><element name="connections" type="var:variableConnections"/></code>

Element var:variableConnections / var:idChannel

Namespace	http://www.example.org/km										
Diagram											
Type	var:typeConnectionChannel										
Properties	<table border="0"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	complex	minOccurs:	0	maxOccurs:	1				
content:	complex										
minOccurs:	0										
maxOccurs:	1										
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> </tr> </thead> <tbody> <tr> <td>id</td> <td>int</td> <td></td> <td></td> <td>required</td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	id	int			required
QName	Type	Fixed	Default	Use							
id	int			required							
Source	<code><element name="idChannel" type="var:typeConnectionChannel" minOccurs="0" maxOccurs="1"/></code>										

Element var:variableConnections / var:idTopic

Namespace	http://www.example.org/km
Diagram	

Type	var:typeConnectionTopic				
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	unbounded			
Attributes	QName	Type	Fixed	Default	Use
	id	int			required
	location	string			required
	mode	string			required
Source	<code><element name="idTopic" type="var:typeConnectionTopic" minOccurs="0" maxOccurs="unbounded"/></code>				

Element sensor:typeSensor / sensor:adequation

Namespace	http://www.example.org/km				
Diagram					
Type	common:adequation				
Properties	content:	complex			
Model	common:rank common:saturation common:user				
Children	common:rank, common:saturation, common:user				
Instance	<pre><sensor:adequation xmlns:sensor="http://www.example.org/km"> <sensor:rank>{1,1}</sensor:rank> <sensor:saturation>{1,1}</sensor:saturation> <sensor:user>{1,1}</sensor:user> </sensor:adequation></pre>				
Source	<code><element name="adequation" type="sensor:adequation"/></code>				

Element common:adequation / common:rank

Namespace	http://www.example.org/km				
Diagram					
Type	common:adequationRank				
Properties	content:	complex			
Model	common:p1x , common:p1y , common:p2x , common:p2y				
Children	common:p1x, common:p1y, common:p2x, common:p2y				
Instance	<pre><common:rank xmlns:common="http://www.example.org/km"> <common:p1x>{1,1}</common:p1x> <common:p1y>{1,1}</common:p1y> <common:p2x>{1,1}</common:p2x> <common:p2y>{1,1}</common:p2y> </common:rank></pre>				
Source	<code><element name="rank" type="common:adequationRank"/></code>				

Element common:adequationRank / common:p1x

Namespace	http://www.example.org/km				
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Diagram	<p>Built-in primitive type. Corresponds to the IEEE single-precision 32-bit floating point type [IEEE 754-1985].</p>
Type	float
Properties	content: simple
Source	<code><element name="p1x" type="float"/></code>

Element common:adecuationRank / common:p1y

Namespace	http://www.example.org/km
Diagram	<p>Built-in primitive type. Corresponds to the IEEE single-precision 32-bit floating point type [IEEE 754-1985].</p>
Type	float
Properties	content: simple
Source	<code><element name="p1y" type="float"/></code>

Element common:adecuationRank / common:p2x

Namespace	http://www.example.org/km
Diagram	<p>Built-in primitive type. Corresponds to the IEEE single-precision 32-bit floating point type [IEEE 754-1985].</p>
Type	float
Properties	content: simple
Source	<code><element name="p2x" type="float"/></code>

Element common:adecuationRank / common:p2y

Namespace	http://www.example.org/km
Diagram	<p>Built-in primitive type. Corresponds to the IEEE single-precision 32-bit floating point type [IEEE 754-1985].</p>
Type	float
Properties	content: simple
Source	<code><element name="p2y" type="float"/></code>

Element common:adequation / common:saturation

Namespace	http://www.example.org/km
Diagram	
Type	common:adecuationSaturation
Properties	content: complex
Model	common:p1x , common:p1y , common:p2x , common:p2y

Children	common:p1x, common:ply, common:p2x, common:p2y
Instance	<pre><common:saturation xmlns:common="http://www.example.org/km"> <common:p1x>{1,1}</common:p1x> <common:ply>{1,1}</common:ply> <common:p2x>{1,1}</common:p2x> <common:p2y>{1,1}</common:p2y> </common:saturation></pre>
Source	<code><element name="saturation" type="common:adequationSaturation" /></code>

Element common:adequationSaturation / common:p1x

Namespace	http://www.example.org/km
Diagram	
Type	float
Properties	content: simple
Source	<code><element name="p1x" type="float" /></code>

Element common:adequationSaturation / common:ply

Namespace	http://www.example.org/km
Diagram	
Type	float
Properties	content: simple
Source	<code><element name="ply" type="float" /></code>

Element common:adequationSaturation / common:p2x

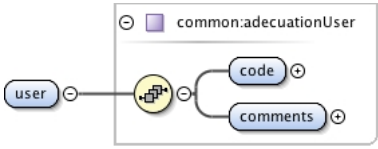
Namespace	http://www.example.org/km
Diagram	
Type	float
Properties	content: simple
Source	<code><element name="p2x" type="float" /></code>

Element common:adequationSaturation / common:p2y

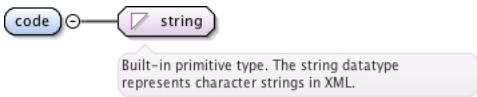
Namespace	http://www.example.org/km
Diagram	
Type	float
Properties	content: simple
Source	<code><element name="p2y" type="float" /></code>

Element common:adequation / common:user

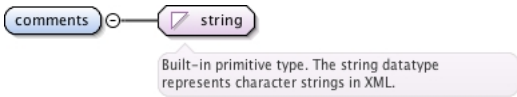
Namespace	http://www.example.org/km
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Diagram	
Type	common:adecuationUser
Properties	content: complex
Model	common:code , common:comments
Children	common:code, common:comments
Instance	<pre><common:user xmlns:common="http://www.example.org/km"> <common:code>{1,1}</common:code> <common:comments>{1,1}</common:comments> </common:user></pre>
Source	<pre><element name="user" type="common:adecuationUser"/></pre>

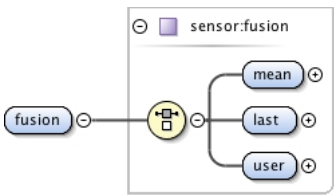
Element common:adecuationUser / common:code

Namespace	http://www.example.org/km
Diagram	
Type	string
Properties	content: simple
Source	<pre><element name="code" type="string"/></pre>

Element common:adecuationUser / common:comments

Namespace	http://www.example.org/km
Diagram	
Type	string
Properties	content: simple
Source	<pre><element name="comments" type="string"/></pre>


Element sensor:typeSensor / sensor:fusion

Namespace	http://www.example.org/km
Diagram	
Type	common:fusion
Properties	content: complex
Model	common:mean common:last common:user
Children	common:last, common:mean, common:user
Instance	<pre><sensor:fusion xmlns:sensor="http://www.example.org/km"> <sensor:mean>{1,1}</sensor:mean> <sensor:last>{1,1}</sensor:last> <sensor:user>{1,1}</sensor:user> </sensor:fusion></pre>
Source	<pre><element name="fusion" type="sensor:fusion"/></pre>

Element `common:fusion` / `common:mean`

Namespace	http://www.example.org/km
Diagram	
Type	common:fusionMean
Properties	content: complex
Model	common:mean
Children	common:mean
Instance	<pre><common:mean xmlns:common="http://www.example.org/km"> <common:mean>{1,1}</common:mean> </common:mean></pre>
Source	<pre><element name="mean" type="common:fusionMean"/></pre>

Element `common:fusionMean` / `common:mean`

Namespace	http://www.example.org/km
Diagram	 <small>Built-in primitive type. The string datatype represents character strings in XML.</small>
Type	string
Properties	content: simple
Source	<pre><element name="mean" type="string"/></pre>

Element `common:fusion` / `common:last`

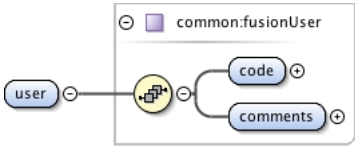
Namespace	http://www.example.org/km
Diagram	
Type	common:fusionLast
Properties	content: complex
Model	common:last
Children	common:last
Instance	<pre><common:last xmlns:common="http://www.example.org/km"> <common:last>{1,1}</common:last> </common:last></pre>
Source	<pre><element name="last" type="common:fusionLast"/></pre>

Element `common:fusionLast` / `common:last`

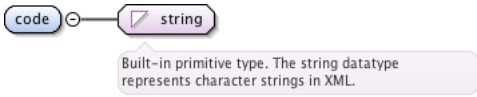
Namespace	http://www.example.org/km
Diagram	 <small>Built-in primitive type. The string datatype represents character strings in XML.</small>
Type	string
Properties	content: simple
Source	<pre><element name="last" type="string"/></pre>

Element `common:fusion` / `common:user`

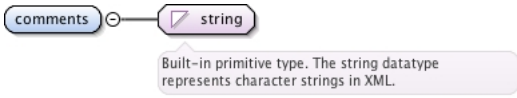
Namespace	http://www.example.org/km
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Diagram	
Type	common:fusionUser
Properties	content: complex
Model	common:code , common:comments
Children	common:code, common:comments
Instance	<pre><common:user xmlns:common="http://www.example.org/km"> <common:code>{1,1}</common:code> <common:comments>{1,1}</common:comments> </common:user></pre>
Source	<pre><element name="user" type="common:fusionUser"/></pre>

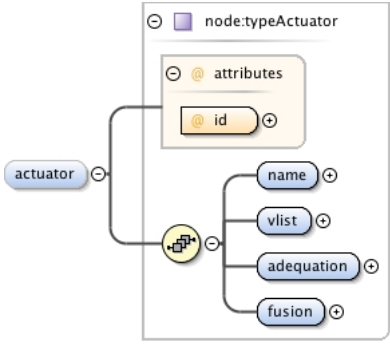
Element common:fusionUser / common:code

Namespace	http://www.example.org/km
Diagram	
Type	string
Properties	content: simple
Source	<pre><element name="code" type="string"/></pre>

Element common:fusionUser / common:comments

Namespace	http://www.example.org/km
Diagram	
Type	string
Properties	content: simple
Source	<pre><element name="comments" type="string"/></pre>

Element node:typeNode / node:actuator

Namespace	http://www.example.org/km
Diagram	
Type	actuator:typeActuator
Properties	content: complex
	minOccurs: 0
	maxOccurs: unbounded
Model	actuator:name , actuator:vlist , actuator:adequation , actuator:fusion

Children	actuator:adequation, actuator:fusion, actuator:name, actuator:vlist				
Instance	<pre><node:actuator id=" " xmlns:node="http://www.example.org/km"> <node:name>{1,1}</node:name> <node:vlist>{1,1}</node:vlist> <node:adequation>{1,1}</node:adequation> <node:fusion>{1,1}</node:fusion> </node:actuator></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	actuator:actuatorID			required
Source	<code><element name="actuator" type="node:typeActuator" maxOccurs="unbounded" minOccurs="0" /></code>				

Element actuator:typeActuator / actuator:name

Namespace	http://www.example.org/km				
Diagram					
Type	common:kmStringName				
Properties	content:	simple			
Source	<code><element name="name" type="actuator:kmStringName" /></code>				

Element actuator:typeActuator / actuator:vlist

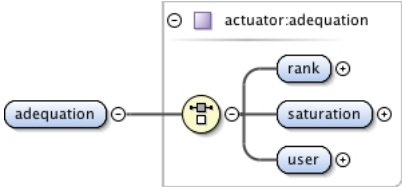
Namespace	http://www.example.org/km				
Diagram					
Properties	content:	complex			
Model	actuator:variable*				
Children	actuator:variable				
Instance	<pre><actuator:vlist xmlns:actuator="http://www.example.org/km"> <actuator:variable name="">{0,unbounded}</actuator:variable> </actuator:vlist></pre>				
Source	<pre><element name="vlist"> <complexType> <sequence> <element name="variable" type="actuator:typeVariable" maxOccurs="unbounded" minOccurs="0" /> </sequence> </complexType> </element></pre>				

Element actuator:typeActuator / actuator:vlist / actuator:variable

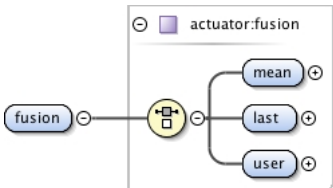
Namespace	http://www.example.org/km				
Diagram					
Type	var:typeVariable				
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	unbounded			
Model	var:configuration , var:connections				
Children	var:configuration, var:connections				
Instance	<pre><actuator:variable name="" xmlns:actuator="http://www.example.org/km"> <actuator:configuration>{1,1}</actuator:configuration> <actuator:connections>{1,1}</actuator:connections></pre>				

	</actuator:variable>				
Attributes	QName	Type	Fixed	Default	Use
	name	string			required
Source	<element name="variable" type="actuator:typeVariable" maxOccurs="unbounded" minOccurs="0"/>				

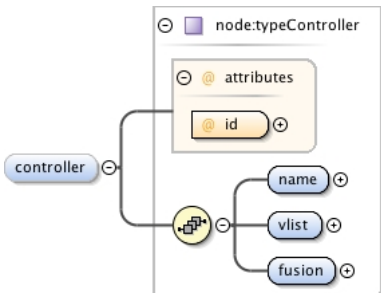
Element actuator:typeActuator / actuator:adequation

Namespace	http://www.example.org/km
Diagram	 <p>The diagram shows a tree structure for the 'actuator:adequation' element. The root node is 'adequation', which contains a complex child element 'actuator:adequation'. This complex element contains three child elements: 'rank', 'saturation', and 'user'.</p>
Type	common:adequation
Properties	content: complex
Model	common:rank common:saturation common:user
Children	common:rank, common:saturation, common:user
Instance	<pre><actuator:adequation xmlns:actuator="http://www.example.org/km"> <actuator:rank>{1,1}</actuator:rank> <actuator:saturation>{1,1}</actuator:saturation> <actuator:user>{1,1}</actuator:user> </actuator:adequation></pre>
Source	<element name="adequation" type="actuator:adequation"/>

Element actuator:typeActuator / actuator:fusion

Namespace	http://www.example.org/km
Diagram	 <p>The diagram shows a tree structure for the 'actuator:fusion' element. The root node is 'fusion', which contains a complex child element 'actuator:fusion'. This complex element contains three child elements: 'mean', 'last', and 'user'.</p>
Type	common:fusion
Properties	content: complex
Model	common:mean common:last common:user
Children	common:last, common:mean, common:user
Instance	<pre><actuator:fusion xmlns:actuator="http://www.example.org/km"> <actuator:mean>{1,1}</actuator:mean> <actuator:last>{1,1}</actuator:last> <actuator:user>{1,1}</actuator:user> </actuator:fusion></pre>
Source	<element name="fusion" type="actuator:fusion"/>

Element node:typeNode / node:controller

Namespace	http://www.example.org/km
Diagram	 <p>The diagram shows a tree structure for the 'node:controller' element. The root node is 'controller', which contains a complex child element 'node:typeController'. This complex element contains an 'attributes' container with an 'id' attribute, and three child elements: 'name', 'vlist', and 'fusion'.</p>

Type	controller:typeController			
Properties	content:	complex		
	minOccurs:	0		
	maxOccurs:	unbounded		
Model	controller:name , controller:vlist , controller:fusion			
Children	controller:fusion, controller:name, controller:vlist			
Instance	<pre><node:controller id=" " xmlns:node="http://www.example.org/km"> <node:name>{1,1}</node:name> <node:vlist>{1,1}</node:vlist> <node:fusion>{1,1}</node:fusion> </node:controller></pre>			
Attributes	QName	Type	Fixed	Default
	id	controller:controllerID		required
Source	<pre><element name="controller" type="node:typeController" maxOccurs="unbounded" minOccurs="0"/></pre>			

Element controller:typeController / controller:name

Namespace	http://www.example.org/km		
Diagram			
Type	common:kmStringName		
Properties	content:	simple	
Source	<pre><element name="name" type="controller:kmStringName" /></pre>		

Element controller:typeController / controller:vlist

Namespace	http://www.example.org/km		
Diagram			
Properties	content:	complex	
Model	controller:variable*		
Children	controller:variable		
Instance	<pre><controller:vlist xmlns:controller="http://www.example.org/km"> <controller:variable name=" ">{0,unbounded}</controller:variable> </controller:vlist></pre>		
Source	<pre><element name="vlist"> <complexType> <sequence> <element name="variable" type="controller:typeVariable" maxOccurs="unbounded" minOccurs="0"/> </sequence> </complexType> </element></pre>		

Element controller:typeController / controller:vlist / controller:variable

Namespace	http://www.example.org/km		
Diagram			
Type	var:typeVariable		
Properties	content:	complex	
	minOccurs:	0	
	maxOccurs:	unbounded	

Model	var:configuration , var:connections				
Children	var:configuration, var:connections				
Instance	<pre><controller:variable name="" xmlns:controller="http://www.example.org/km"> <controller:configuration>{1,1}</controller:configuration> <controller:connections>{1,1}</controller:connections> </controller:variable></pre>				
Attributes	QName	Type	Fixed	Default	Use
	name	string			required
Source	<pre><element name="variable" type="controller:typeVariable" maxOccurs="unbounded" minOccurs="0"/></pre>				

Element controller:typeController / controller:fusion

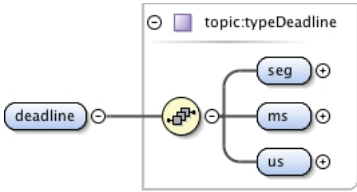
Namespace	http://www.example.org/km				
Diagram					
Type	common:fusion				
Properties	content:	complex			
Model	common:mean common:last common:user				
Children	common:last, common:mean, common:user				
Instance	<pre><controller:fusion xmlns:controller="http://www.example.org/km"> <controller:mean>{1,1}</controller:mean> <controller:last>{1,1}</controller:last> <controller:user>{1,1}</controller:user> </controller:fusion></pre>				
Source	<pre><element name="fusion" type="controller:fusion"/></pre>				

Element node:typeNode / node:topic


Namespace	http://www.example.org/km				
Diagram					
Type	topic:typeTopic				
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	unbounded			
Model	topic:deadline				
Children	topic:deadline				
Instance	<pre><node:topic id="" xmlns:node="http://www.example.org/km"> <node:deadline>{1,1}</node:deadline> </node:topic></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	topic:topicID			required
Source	<pre><element name="topic" type="node:typeTopic" maxOccurs="unbounded" minOccurs="0"/></pre>				

Element topic:typeTopic / topic:deadline

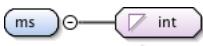
Namespace	http://www.example.org/km				
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Diagram	
Type	topic:typeDeadline
Properties	content: complex minOccurs: 1 maxOccurs: 1
Model	topic:seg , topic:ms , topic:us
Children	topic:ms, topic:seg, topic:us
Instance	<pre><topic:deadline xmlns:topic="http://www.example.org/km"> <topic:seg>{1,1}</topic:seg> <topic:ms>{1,1}</topic:ms> <topic:us>{1,1}</topic:us> </topic:deadline></pre>
Source	<pre><element name="deadline" type="topic:typeDeadline" minOccurs="1" maxOccurs="1" /></pre>

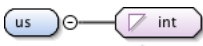
Element topic:typeDeadline / topic:seg

Namespace	http://www.example.org/km
Diagram	 <small>Built-in derived type. The int datatype is derived from long by setting the value of maxInclusive to be 2147483647 and...</small>
Type	int
Properties	content: simple
Source	<pre><element name="seg" type="int" /></pre>

Element topic:typeDeadline / topic:ms

Namespace	http://www.example.org/km
Diagram	 <small>Built-in derived type. The int datatype is derived from long by setting the value of maxInclusive to be 2147483647 and...</small>
Type	int
Properties	content: simple
Source	<pre><element name="ms" type="int" /></pre>

Element topic:typeDeadline / topic:us

Namespace	http://www.example.org/km
Diagram	 <small>Built-in derived type. The int datatype is derived from long by setting the value of maxInclusive to be 2147483647 and...</small>
Type	int
Properties	content: simple
Source	<pre><element name="us" type="int" /></pre>

Element km:kmConfig / km:topic

Namespace	http://www.example.org/km
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Diagram					
Type	topic:typeTopic				
Properties	content:	complex			
	minOccurs:	0			
	maxOccurs:	unbounded			
Model	topic:deadline				
Children	topic:deadline				
Instance	<pre><km:topic id=" " xmlns:km="http://www.example.org/km"> <km:deadline{1,1}</km:deadline> </km:topic></pre>				
Attributes	QName	Type	Fixed	Default	Use
	id	topic:topicID			required
Source	<pre><element name="topic" type="km:typeTopic" maxOccurs="unbounded" minOccurs="0" /></pre>				

Complex Type(s)

Complex Type node:typeNode

Namespace	http://www.example.org/km				
Diagram					
Used by	Element	km:kmConfig/km:node			
Model	node:name , node:channel* , node:sensor* , node:actuator* , node:controller* , node:topic*				
Children	node:actuator, node:channel, node:controller, node:name, node:sensor, node:topic				
Attributes	QName	Type	Fixed	Default	Use
	id	node:nodeID			required
Source	<pre><complexType name="typeNode"> <sequence> <element name="name" type="node:kmStringName" /> <element name="channel" type="node:typeChannel" maxOccurs="unbounded" minOccurs="0" /> <element name="sensor" type="node:typeSensor" maxOccurs="unbounded" minOccurs="0" /> <element name="actuator" type="node:typeActuator" maxOccurs="unbounded" minOccurs="0" /> <element name="controller" type="node:typeController" maxOccurs="unbounded" minOccurs="0" /> <element name="topic" type="node:typeTopic" maxOccurs="unbounded" minOccurs="0" /> </sequence> <!-- Attributes --> <attribute name="id" use="required" type="node:nodeID" /> </complexType></pre>				

Complex Type channel:typeChannel

Namespace	http://www.example.org/km
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Diagram					
Used by	Element node:typeNode/node:channel				
Model	channel:typeIO				
Children	channel:typeIO				
Attributes	QName	Type	Fixed	Default	Use
	id	channel:channelID			required
Source	<pre><complexType name="typeChannel"> <sequence> <element name="typeIO" type="channel:typeIO"/> </sequence> <!-- Attributes --> <attribute name="id" use="required" type="channel:channelID"/> </complexType></pre>				

Complex Type channel:typeIO

Namespace	http://www.example.org/km				
Diagram					
Used by	Element channel:typeChannel/channel:typeIO				
Model	channel:ND channel:IN channel:OUT				
Children	channel:IN, channel:ND, channel:OUT				
Source	<pre><complexType name="typeIO"> <choice> <element name="ND" type="channel:label_ND"/> <element name="IN" type="channel:typeIO_IN"/> <element name="OUT" type="channel:typeIO_OUT"/> </choice> </complexType></pre>				

Complex Type sensor:typeSensor

Namespace	http://www.example.org/km				
Diagram					
Used by	Element node:typeNode/node:sensor				
Model	sensor:name , sensor:vlist , sensor:adequation , sensor:fusion				
Children	sensor:adequation, sensor:fusion, sensor:name, sensor:vlist				
Attributes	QName	Type	Fixed	Default	Use
	id	sensor:sensorID			required
Source	<pre><complexType name="typeSensor"> <sequence> <element name="name" type="sensor:kmStringName"/> <element name="vlist"> <complexType></pre>				

```

        <sequence>
          <element name="variable" type="sensor:typeVariable" maxOccurs="unbounded" minOccurs="0"/>
        </sequence>
      </complexType>
    </element>
    <element name="adequation" type="sensor:adequation"/>
    <element name="fusion" type="sensor:fusion"/>
  </sequence>
  <!-- Attributes -->
  <attribute name="id" use="required" type="sensor:sensorID"/>
</complexType>

```

Complex Type var:typeVariable

Namespace	http://www.example.org/km				
Diagram					
Used by	Elements	actuator:typeActuator/actuator:vlist/actuator:variable, controller:typeController/controller:vlist/controller:variable, sensor:typeSensor/sensor:vlist/sensor:variable			
Model	var:configuration , var:connections				
Children	var:configuration, var:connections				
Attributes	QName	Type	Fixed	Default	Use
	name	string			required
Source	<pre> <complexType name="typeVariable"> <sequence> <element name="configuration" type="string"/> <element name="connections" type="var:variableConnections"/> </sequence> <!-- Attributes --> <attribute name="name" type="string" use="required"/> </complexType> </pre>				

Complex Type var:variableConnections

Namespace	http://www.example.org/km				
Diagram					
Used by	Element	var:typeVariable/var:connections			
Model	var:idChannel{0,1} , var:idTopic*				
Children	var:idChannel, var:idTopic				
Source	<pre> <complexType name="variableConnections"> <sequence> <element name="idChannel" type="var:typeConnectionChannel" minOccurs="0" maxOccurs="1"/> <element name="idTopic" type="var:typeConnectionTopic" minOccurs="0" maxOccurs="unbounded"/> </sequence> </complexType> </pre>				

Complex Type var:typeConnectionChannel

Namespace	http://www.example.org/km				
Diagram					
Used by	Element	var:variableConnections/var:idChannel			
Attributes	QName	Type	Fixed	Default	Use
	id	int			required

Source	<pre><complexType name="typeConnectionChannel"> <!-- Attributes --> <attribute name="id" type="int" use="required"/> </complexType></pre>
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Complex Type var:typeConnectionTopic

Namespace	http://www.example.org/km				
Diagram					
Used by	Element var:variableConnections/var:idTopic				
Attributes	QName	Type	Fixed	Default	Use
	id	int			required
	location	string			required
	mode	string			required
Source	<pre><complexType name="typeConnectionTopic"> <!-- Attributes --> <!-- internal external --> <attribute name="id" type="int" use="required"/> <attribute name="location" type="string" use="required"/> <!-- read write --> <attribute name="mode" type="string" use="required"/> </complexType></pre>				

Complex Type common:adequation

Namespace	http://www.example.org/km			
Diagram				
Used by	Elements actuator:typeActuator/actuator:adequation, sensor:typeSensor/sensor:adequation			
Model	common:rank common:saturation common:user			
Children	common:rank, common:saturation, common:user			
Source	<pre><complexType name="adequation"> <choice> <element name="rank" type="common:adequationRank"/> <element name="saturation" type="common:adequationSaturation"/> <element name="user" type="common:adequationUser"/> </choice> </complexType></pre>			

Complex Type common:adequationRank

Namespace	http://www.example.org/km			
Diagram				
Used by	Element common:adequation/common:rank			
Model	common:p1x , common:p1y , common:p2x , common:p2y			
Children	common:p1x, common:p1y, common:p2x, common:p2y			
Source	<pre><complexType name="adequationRank"></pre>			

	<pre> <sequence> <element name="p1x" type="float" /> <element name="p1y" type="float" /> <element name="p2x" type="float" /> <element name="p2y" type="float" /> </sequence> </complexType> </pre>
--	--

Complex Type common:adequationSaturation

Namespace	http://www.example.org/km
Diagram	
Used by	Element common:adequation/common:saturation
Model	common:p1x , common:p1y , common:p2x , common:p2y
Children	common:p1x, common:p1y, common:p2x, common:p2y
Source	<pre> <complexType name="adequationSaturation"> <sequence> <element name="p1x" type="float" /> <element name="p1y" type="float" /> <element name="p2x" type="float" /> <element name="p2y" type="float" /> </sequence> </complexType> </pre>

Complex Type common:adequationUser

Namespace	http://www.example.org/km
Diagram	
Used by	Element common:adequation/common:user
Model	common:code , common:comments
Children	common:code, common:comments
Source	<pre> <complexType name="adequationUser"> <sequence> <element name="code" type="string" /> <element name="comments" type="string" /> </sequence> </complexType> </pre>


Complex Type common:fusion

Namespace	http://www.example.org/km
Diagram	
Used by	Elements actuator:typeActuator/actuator:fusion, controller:typeController/controller:fusion, sensor:typeSensor/sensor:fusion
Model	common:mean common:last common:user
Children	common:last, common:mean, common:user
Source	<pre> <complexType name="fusion"> <choice> <element name="mean" type="common:fusionMean" /> <element name="last" type="common:fusionLast" /> <element name="user" type="common:fusionUser" /> </choice> </complexType> </pre>


Complex Type `common:fusionMean`

Namespace	http://www.example.org/km
Diagram	
Used by	Element <code>common:fusion/common:mean</code>
Model	<code>common:mean</code>
Children	<code>common:mean</code>
Source	<pre><complexType name="fusionMean"> <sequence> <element name="mean" type="string"/> </sequence> </complexType></pre>

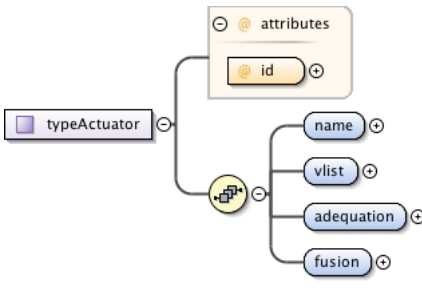
Complex Type `common:fusionLast`

Namespace	http://www.example.org/km
Diagram	
Used by	Element <code>common:fusion/common:last</code>
Model	<code>common:last</code>
Children	<code>common:last</code>
Source	<pre><complexType name="fusionLast"> <sequence> <element name="last" type="string"/> </sequence> </complexType></pre>

Complex Type `common:fusionUser`

Namespace	http://www.example.org/km
Diagram	
Used by	Element <code>common:fusion/common:user</code>
Model	<code>common:code</code> , <code>common:comments</code>
Children	<code>common:code</code> , <code>common:comments</code>
Source	<pre><complexType name="fusionUser"> <sequence> <element name="code" type="string"/> <element name="comments" type="string"/> </sequence> </complexType></pre>

Complex Type `actuator:typeActuator`

Namespace	http://www.example.org/km
Diagram	
Used by	Element <code>node:typeNode/node:actuator</code>
Model	<code>actuator:name</code> , <code>actuator:vlist</code> , <code>actuator:adequation</code> , <code>actuator:fusion</code>

Children	actuator:adequation, actuator:fusion, actuator:name, actuator:vlist				
Attributes	QName	Type	Fixed	Default	Use
	id	actuator:actuatorID			required
Source	<pre> <complexType name="typeActuator"> <sequence> <element name="name" type="actuator:kmStringName"/> <element name="vlist"> <complexType> <sequence> <element name="variable" type="actuator:typeVariable" maxOccurs="unbounded" minOccurs="0"/> </sequence> </complexType> </element> <element name="adequation" type="actuator:adequation"/> <element name="fusion" type="actuator:fusion"/> </sequence> <!-- Attributes --> <attribute name="id" use="required" type="actuator:actuatorID"/> </complexType> </pre>				

Complex Type controller:typeController

Namespace	http://www.example.org/km				
Diagram					
Used by	Element node:typeNode/node:controller				
Model	controller:name , controller:vlist , controller:fusion				
Children	controller:fusion, controller:name, controller:vlist				
Attributes	QName	Type	Fixed	Default	Use
	id	controller:controllerID			required
Source	<pre> <complexType name="typeController"> <sequence> <element name="name" type="controller:kmStringName"/> <element name="vlist"> <complexType> <sequence> <element name="variable" type="controller:typeVariable" maxOccurs="unbounded" minOccurs="0"/> </sequence> </complexType> </element> <element name="fusion" type="controller:fusion"/> </sequence> <!-- Attributes --> <attribute name="id" use="required" type="controller:controllerID"/> </complexType> </pre>				

Complex Type topic:typeTopic

Namespace	http://www.example.org/km				
Diagram					
Used by	Elements km:kmConfig/km:topic, node:typeNode/node:topic				
Model	topic:deadline				
Children	topic:deadline				

Attributes	QName	Type	Fixed	Default	Use
	id	topic:topicID			required
Source	<pre><complexType name="typeTopic"> <sequence> <element name="deadline" type="topic:typeDeadline" minOccurs="1" maxOccurs="1"/> </sequence> <!-- Attributes --> <attribute name="id" type="topic:topicID" use="required"/> </complexType></pre>				

Complex Type topic:typeDeadline

Namespace	http://www.example.org/km
Diagram	
Used by	Element topic:typeTopic/topic:deadline
Model	topic:seg , topic:ms , topic:us
Children	topic:ms, topic:seg, topic:us
Source	<pre><complexType name="typeDeadline"> <sequence> <element name="seg" type="int"/> <element name="ms" type="int"/> <element name="us" type="int"/> </sequence> </complexType></pre>

Simple Type(s)

Simple Type common:kmStringName

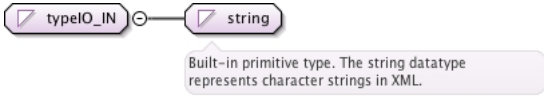
Namespace	http://www.example.org/km
Diagram	
Type	string
Used by	Elements actuator:typeActuator/actuator:name, controller:typeController/controller:name, node:typeNode/node:name, sensor:typeSensor/sensor:name
Source	<pre><simpleType name="kmStringName"> <restriction base="string"/> </simpleType></pre>

Simple Type common:label_ND

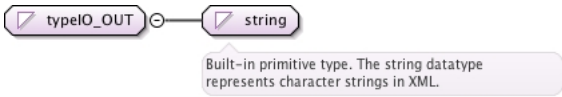
Namespace	http://www.example.org/km
Diagram	
Type	restriction of string
Facets	maxLength 0
Used by	Element channel:typeIO/channel:ND
Source	<pre><simpleType name="label_ND"> <restriction base="string"> <maxLength value="0"/> </restriction> </simpleType></pre>

Simple Type channel:typeIO_IN

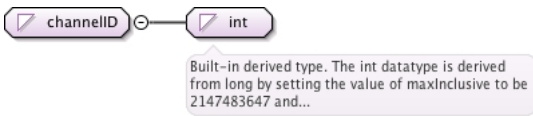
Namespace	http://www.example.org/km
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Diagram	
Type	string
Used by	Element channel:typeIO/channel:IN
Source	<pre><simpleType name="typeIO_IN"> <restriction base="string"> </restriction> </simpleType></pre>

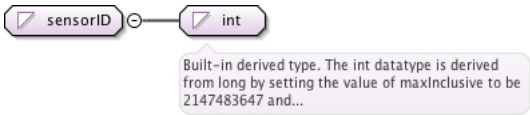
Simple Type channel : typeIO_OUT

Namespace	http://www.example.org/km
Diagram	
Type	string
Used by	Element channel:typeIO/channel:OUT
Source	<pre><simpleType name="typeIO_OUT"> <restriction base="string"> </restriction> </simpleType></pre>

Simple Type channel : channelID

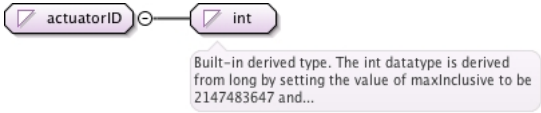
Namespace	http://www.example.org/km
Diagram	
Type	restriction of int
Facets	minInclusive 0
Used by	Attribute channel:typeChannel/@id
Source	<pre><simpleType name="channelID"> <restriction base="int"> <minInclusive value="0"/> </restriction> </simpleType></pre>

Simple Type sensor : sensorID

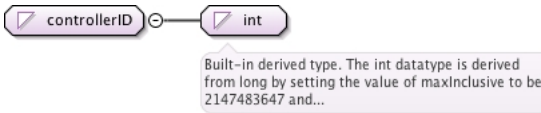
Namespace	http://www.example.org/km
Diagram	
Type	restriction of int
Facets	minInclusive 0
Used by	Attribute sensor:typeSensor/@id
Source	<pre><simpleType name="sensorID"> <restriction base="int"> <minInclusive value="0"/> </restriction> </simpleType></pre>

Simple Type actuator : actuatorID

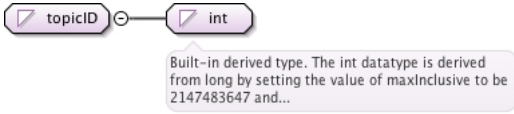
Namespace	http://www.example.org/km
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Diagram	
Type	restriction of int
Facets	minInclusive 0
Used by	Attribute actuator:typeActuator/@id
Source	<pre><simpleType name="actuatorID"> <restriction base="int"> <minInclusive value="0"/> </restriction> </simpleType></pre>

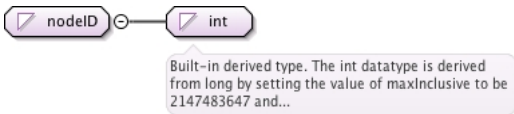
Simple Type controller:controllerID

Namespace	http://www.example.org/km
Diagram	
Type	restriction of int
Facets	minInclusive 0
Used by	Attribute controller:typeController/@id
Source	<pre><simpleType name="controllerID"> <restriction base="int"> <minInclusive value="0"/> </restriction> </simpleType></pre>

Simple Type topic:topicID

Namespace	http://www.example.org/km
Diagram	
Type	restriction of int
Facets	minInclusive 0
Used by	Attribute topic:typeTopic/@id
Source	<pre><simpleType name="topicID"> <restriction base="int"> <minInclusive value="0"/> </restriction> </simpleType></pre>

Simple Type node:nodeID

Namespace	http://www.example.org/km
Diagram	
Type	restriction of int
Facets	minInclusive 0
Used by	Attribute node:typeNode/@id
Source	<pre><simpleType name="nodeID"> <restriction base="int"> <minInclusive value="0"/> </restriction> </simpleType></pre>

```
</restriction>
</simpleType>
```

Simple Type channel:label_ND

Namespace	http://www.example.org/km
Diagram	
Type	string
Source	<pre><simpleType name="label_ND"> <restriction base="string"> </restriction> </simpleType></pre>

Namespace: ""

Attribute(s)

Attribute channel:typeChannel / @id

Namespace	No namespace
Type	channel:channelID
Properties	use: required
Facets	minInclusive 0
Used by	Complex Type channel:typeChannel
Source	<pre><attribute name="id" use="required" type="channel:channelID"/></pre>

Attribute var:typeConnectionChannel / @id

Namespace	No namespace
Type	int
Properties	use: required
Used by	Complex Type var:typeConnectionChannel
Source	<pre><attribute name="id" type="int" use="required"/></pre>

Attribute var:typeConnectionTopic / @id

Namespace	No namespace
Type	int
Properties	use: required
Used by	Complex Type var:typeConnectionTopic
Source	<pre><attribute name="id" type="int" use="required"/></pre>

Attribute var:typeConnectionTopic / @location

Namespace	No namespace
Type	string
Properties	use: required
Used by	Complex Type var:typeConnectionTopic
Source	<pre><attribute name="location" type="string" use="required"/></pre>

Attribute var:typeConnectionTopic / @mode

Namespace	No namespace
Type	string

Properties	use:	required
Used by	Complex Type	var:typeConnectionTopic
Source	<code><attribute name="mode" type="string" use="required"/></code>	

Attribute var:typeVariable / @name

Namespace	No namespace	
Type	string	
Properties	use:	required
Used by	Complex Type	var:typeVariable
Source	<code><attribute name="name" type="string" use="required"/></code>	

Attribute sensor:typeSensor / @id

Namespace	No namespace	
Type	sensor:sensorID	
Properties	use:	required
Facets	minInclusive	0
Used by	Complex Type	sensor:typeSensor
Source	<code><attribute name="id" use="required" type="sensor:sensorID"/></code>	

Attribute actuator:typeActuator / @id

Namespace	No namespace	
Type	actuator:actuatorID	
Properties	use:	required
Facets	minInclusive	0
Used by	Complex Type	actuator:typeActuator
Source	<code><attribute name="id" use="required" type="actuator:actuatorID"/></code>	

Attribute controller:typeController / @id

Namespace	No namespace	
Type	controller:controllerID	
Properties	use:	required
Facets	minInclusive	0
Used by	Complex Type	controller:typeController
Source	<code><attribute name="id" use="required" type="controller:controllerID"/></code>	

Attribute topic:typeTopic / @id

Namespace	No namespace	
Type	topic:topicID	
Properties	use:	required
Facets	minInclusive	0
Used by	Complex Type	topic:typeTopic
Source	<code><attribute name="id" type="topic:topicID" use="required"/></code>	

Attribute node:typeNode / @id

Namespace	No namespace	
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Type	node:nodeID
Properties	use: required
Facets	minInclusive 0
Used by	Complex Type node:typeNode
Source	<code><attribute name="id" use="required" type="node:nodeID" /></code>