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Change Request #:	170
Assigned OGC Document #:	11-118
Name:	*JaeJun Yoo
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Document Name/Version:	*Requirements and Space-Event Modeling for Indoor Navigation / 0.1.0
OGC Project Document:	*10-191r1
<p>If this is a revision of a previous submission and you have a Change Request Number, then check here:</p> <input type="checkbox"/> <p>Enter the CR number here: <input type="text"/></p> <p>Enter the Revision Number that you are revising here: <input type="text"/></p>	
Title:	*Temporal Constraints for State and Transition UML class in the data model
Source:	*JaeJun Yoo (OGC member, 3DIM WG, etc)
Work item code:	
Category:	* C (Functional modification of feature)
Reason for change:	<p>* When modeling indoor spaces for some indoor services such as indoor-navigation, we need to consider some temporal constraints when can affect the indoor space model. However, in my understanding, the currently suggest data model cannot support such temporal constraints.</p> <p>For an example and more detailed comments, please refer the uploaded file at supporting document field below.</p>

Summary of change: 	<p>*</p> <p>Temporal constraints are very common in indoor environment, therefore, the data model of the multilayered space-event model should include a method to describe time conditions. That is, we need some methods to describe validity of some classes or instances of <i>State</i> or <i>Transition</i> UML classes according to time conditions in the data model.</p> <p>Such temporal constraints can be described as some attributes of the <i>State</i> or <i>Transition</i> UML classes in the data model or as a class related to the <i>State</i> or <i>Transition</i> UML classes. However, to construct a class for temporal conditions can have different meaning from to add some attributes, we need to have more discussion about which approach is appropriate.</p> <p>(please refer the uploaded file at supporting document field below.)</p>
Consequences if not approved: 	
Clauses affected: 	<p>*</p> <p>chapter 8 and chapter 10.</p>
Additional Documents affected: 	
Supporting Documentation: 	
Comments: 	
Status: 	Assigned 
Assigned To: 	3DIM DWG 
Disposition: 	Referred and Posted 