

Flow of Events for Use Case – Approve Base Model

Change Log	
09/09/2004	Renamed from UC-ApproveBaseModel'.
30/10/2004	Finalized for pre-integrated model

Overview

Provides an approval for the base information provided on top of which the current situation and future planning can be developed.

Note that the base model in this case is considered to be equivalent to the base map in current 2D approaches.

Process

Preconditions

A base model must be available for approval to be given.

Actors

Authority

Main Flow

Flow	Entity
1. Define a spatial extent that designates the map area and identify the space type as a 'map' and name the space as for an equivalent map	IfcSpace IfcSpace.ObjectType = 'Map' IfcSpace.Name
2. Associate an instance of IfcApproval with the map instance of IfcSpace using IfcRelAssociatesApproval.	IfcApproval IfcRelAssociatesApproval
3. Set the value of the attribute IfcApproval.Name to 'ApprovedBaseModel'.	IfcApproval.Name
4. Set the approval status to an appropriate value	IfcApproval.ApprovalStatus
5. Set the value of the IfcApproval.ApprovalDateTime attribute as appropriate.	IfcApproval.ApprovalDateTime
6. ApprovalLevel and ApprovalQualifier attributes may be set as appropriate	IfcApproval.ApprovalLevel IfcApproval.ApprovalQualifier
7. Set the name of the person applying the approval using IfcPerson and the role that they are fulfilling in approving the base map through IfcActorRole.	IfcPerson IfcActorRole
8. Associate the approving person and their role with the instance of IfcApproval using the relationship class IfcApprovalActorRelationship	IfcApprovalActorRelationship

Post Conditions

An approved base model is available.

IFC Usage and Extension Requirements

Existing Entity/Class Usage

<i>Entity Class Name</i>	<i>Usage</i>
IfcApproval	The approval which is applied to the base model
IfcApprovalActorRelationship	A relationship made between the approval and the actor making the approval
IfcActorRole	The role that the approving person is fulfilling with respect to the current approval
IfcPerson	The individual person making the approval
IfcSpace	The map space to which the approval is associated
IfcRelAssociatesApproval	A relationship made between the object requiring approval and the approval given.

Issue List

<i>Question</i>	<i>Answer</i>
<p>[TL 16.08.04] Is IfcMap adequate? A map is a representation of a GIS content, similar as a plan is a representation of a B&C project. Therefore I would prefer to continue to use IfcProject.</p> <p>Using IfcMap has the potential to mix the semantic (the geographic region) with its representation by a map.</p>	<p>[JDW 30.10.2004] Reverted to using IfcSpace typed as a 'Map'.</p>