

Extending CityGML for other constructions

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Linda van den Brink (Geonovum, Netherlands), Marie-Lise Vautier (IGN, France)

The current CityGML models do not cover all the extent of the built environment. Some built objects are semantically not well represented using the existing Building and CityFurniture modules. Examples are built structures that do not match the definition of building (e.g. tanks), engineering structures that can't be considered to be city furnitures (e.g. dams) and linear separation features (e.g. walls). These objects are an essential part of the city and its surroundings, and the requirement for semantically explicit modelling has been identified in INSPIRE as well as in national civilian and defence use cases.

Several approaches can be chosen in CityGML to deal with these objects: use the GenericCityObject concept, use CityFurniture and _AbstractBuilding anyway, or define an ADE. Geonovum has chosen the latter solution and submitted its proposal for discussion and further harmonization with the geospatial community. It is currently under discussion by OGC CityGML experts. Geonovum and IGN have worked together to compare several sources of semantics to identify similarities in the definition of a building, and hence the meaning of "other construction". Clear semantics will drive the drafting of UML models.

The intent of the proposed presentation is to lay out the current state of the proposal and to discuss its relevance and the way forward with workshop attendees.