Kanishk Chaturvedi
21.07.2014

Minutes of Meeting
CityGML 3.0 WP06 First Teleconference

Participants

- Thomas H. Kolbe, TU Munich
- Gilles Gesquiere, LIRIS
- Steve Smyth, OpenSitePlan
- Tatjana Kutzner, TU Munich
- Kanishk Chaturvedi, TU Munich

The following statements refer to the presentation agenda shown during the teleconference and which is also attached as an appendix:

Working mode and strategy

- Priority should be on model development
- Methodology should be defined, including class-attributes relation and association

Use cases

- Suggestion from Steve for work related to Factual reconstruction
- Suggestion from Gilles on training simulations and cultural heritage within CityGML
- Each contributor to prepare a 1-2 page(s) text on suggested use cases, including
    - Short description
    - Details on which requirements the use cases place on the support of dynamics in CityGML
    - Images or screenshots

Related work/Literature

- Kanishk will update pointers on where the relevant parts about dynamics can be found in the literature provided to all WP participants
- Thomas will provide more details on SEDRIS specifically for the representation of dynamics
- More information required on Moving features SWG on whether it should be JSON based or GML based
- We should have a closer look at the INSPIRE data specifications, how they deal with object's history

Scope

- It was discussed, if it would be feasible to deal with the two types of versioning (chronologically or alternative models at the same time) in a two-stage process, since the two types are orthogonal to each other, or if there are arguments which require a parallel process.
    - All participants agreed on a two-stage process. Both types are independent of each other and the second type makes use of the first type.
    - First, the focus will be on time varying properties and objects as well as on versions in the sense of an object-history, and afterwards on versions in the sense of alternative models for the same real-world time.
- Related to versioning, the question to be answered is, “Can we always ensure chronologically non-overlapping intervals for an object’s history?”
- Related to the technical approach, some suggestions were:
    - The new features should not affect the existing model
    - There should be a uniform approach for time variation
    - There may be two versions of an object (one with original and the other with changed geometry or attributes)

Representation of dynamic data

- Suitable approach required to deal with smooth changes (maybe with the help of interpolation)
- For complex variation behavior, many concepts can be found in animation. Other standards such as SMIL and COLLADA/X3D already have such features.

Goals and deliverables

- Within the specification document, a list of existing practices or related work should be added along with use cases
- Kanishk and Tatjana will contact Steve for setting up a private Github repository for related documents
- The change request for WP 06 (WP-CR) will be prepared by Kanishk in coordination with the other WP06 contributors and shall be finalised one week before the next OGC TC meeting in September 2014
- Once the data model is defined it was agreed to write a joint scientific paper on the concept

Timeframe

- Next teleconference on August 11, 2014 5PM-7PM GMT +0200
- It was agreed that in the coming teleconferences short presentations (20 minutes) will be given by the contributors of this WP on related work
    - Presentations on August 11, 2014, will be by Gilles on the conceptual model for the representation of dynamics and Kanishk on AIXM
    - Presentations in the teleconference after the next one will be by Marc on the conceptual model for the representation of dynamics and Steve on specific use cases
- A 2-days face to face meeting at TUM Munich has been agreed for the week November 3-7, 2014. Kanishk will set up a doodle poll to confirm the dates