



Kanishk Chaturvedi
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Minutes of Meeting CityGML 3.0 WP06 Fifth Teleconference

Participants

- Gilles Gesquière, LIRIS
- Steve Smyth, OpenSitePlan
- Tatjana Kutzner, TU Munich
- Kanishk Chaturvedi, TU Munich

Agenda of the meeting

- Discussion about the document structure for the paper on the versioning concept. Appointment of writers for the individual sections.
- Discussion on preparing use cases which require the support of dynamics within CityGML and on other approaches for dynamic attributes and which are to be presented at the following teleconference(s).
- Finalization of dates for the next meeting.

Structure of the paper

Kanishk prepared and presented a draft of the document structure for the paper the WP members intend to write on the versioning concept. The document structure was discussed during the meeting. The suggestions from the members were incorporated and writers for the individual sections were appointed. The details of the structure are as follows (Names of the authors of the individual sections are in brackets):

1. Introduction (Thomas/Kanishk)
 - 1.1. Brief introduction to the versioning
 - 1.2. Problem statement and motivation
 - 1.3. General overview of the entire paper
2. Use cases
 - 2.1. Application use cases where the versioning approach may be beneficial
(Steve: use case on factual reconstruction, Gilles: use case for the requirement of versioning in 3D city models, Kanishk: use case for the requirement of versioning in 3D city models)
3. Related work
 - 3.1. How does the versioning work in following related standards/tools?



- 3.1.1. IFC (Gilles)
 - 3.1.2. ESRI ArcSDE Geodatabases (Kanishk)
 - 3.1.3. Oracle Workspace Manager (Kanishk)
 - 3.1.4. GIT/SVN (Steve)
 - 3.1.5. AAA/INSPIRE (Tatjana)
 - 3.1.6. Any other
- 3.2. Section on temporality in 3D city models (suggested by Gilles)
4. Sketching our work (Methodology) (Kanishk)
 - 4.1. Requirements for the versioning of CityGML features
 - 4.2. Selected methodology
 - 4.3. UML model of the versioning schema in CityGML
 - 4.4. Versioning of aggregated features
 - 4.5. Representation of the versions
 - 4.6. Representation of the version transitions
5. Example scenarios/Proof of concept
(Steve, Gilles, Kanishk as this chapter is based on the use cases in chapter 2.)
 - 5.1. How would the versioning benefit specific use cases?
 - 5.2. Examples with Instance data
6. Conclusion and outlook (Thomas/Kanishk)
7. References

Selection of conference/journal for the paper

The discussion took place regarding the selection of a conference or journal in which the paper should be published. The points discussed were:

- Should we go for a journal publication directly or first a conference publication which presents an overview of our concept followed by a journal publication which then presents the details of the concept?
- It would be good to decide on this soon, as the structure and the length of the paper will also depend on where we intend to publish. Conference papers are usually shorter than journal papers, thus in a conference paper we probably would have to keep the related works part very short.
- Steve suggested the conference “Conference on Spatial Information Theory XII (COSIT)” (<http://www.cosit.info/>). The conference will be held on October 13-15, 2015 and the deadline for full papers is March 30, 2015.
- Gilles suggested to publish the paper soon, as it would be good to have already a reference for the dynamic approach. Publishing e.g. at the 3DGeoinfo would mean that we would not have a reference before November 2015.
- Kanishk will list down other conference/journal options for the publication of the versioning approach.



Use cases supporting the dynamics within CityGML

As part of the next agenda item of the meeting, a discussion took place for the identification of use cases which require the support of dynamics within CityGML and on other approaches for dynamic attributes. Accordingly, the following presentations were scheduled for the next teleconference.

- Gilles will present an example of dynamics within CityGML with a use case of Munich city about the study of thermic problems.
- Steve will present several specific use cases requiring the support of dynamics within CityGML.

Kanishk will present the specific use cases requiring the support of dynamics within CityGML in the teleconference after the next one.

Follow-up information on the teleconference December 16, 2014

- Tatjana contacted Clemens Portele and Simon Cox regarding open questions on AAA and INSPIRE. The answers will be provided as soon as available.

Next steps

- Each author of the paper will start preparing a first draft of the individual sections he opted for. The drafts will be discussed at the next meeting.
- Suitable conference/journal options are to be identified by everyone so that we may be able to decide on this question at the next meeting.
- Gilles, Steve, and Kanishk will prepare presentations on specific use cases for the next meetings

Next meeting

- The next teleconference will take place on February 10, 2015 (5pm-7pm CET).