

Attendees:

- Georg F. Schneider
- Kris McGlinn (TCD-ADAPT)
- Michel Böhms (TNO)
- Katja Breitenfelder (Fraunhofer IBP/ TUM)
- Mads Holten Rasmussen (NIRAS)
- Maxime Lefrancois (MINES Saint-Etienne)
- Walter Terkaj (CNR-STIIMA)
- Prathap Valluru (TU Dresden)
- María Poveda-Villalón (UPM)
- Joel J. Bender (Cornell)
- Ana Roxin
- Alberto Giretti
- Jan Voskuil
- Justine T
- Anna Wagner (TU Darmstadt)
- Sigve Pettersen (bSI)
- Mathias Bonduel (KU Leuven)
- Richard Pinka (CTU Prague)
- Rui de Klerk (FAUL)
- Alberto Giretti (UNIVPM)
- Sander Stolk (Semmtech)
- Kyriakos Katsigarakis (TUC)

Date and time

- 07/11/2019
- 15:00 WET/ 16:00 CET

Agenda

1. Introduction of new attendees
2. Wrap-up on property modelling LBD (Mathias Bonduel)
3. Report on the topic of complex property modelling (inspired by OPM L2) proposed in CEN TC442/WG4/TG3 as part of the “Semantic Modelling & Linking Standard (SMLS) for the built environment” (Michel Böhms)
4. Meeting with W3C Spatial Data on the Web Interest Group: 19th of November

Minutes

1. Introduction of new attendees
 - Prathap Valluru: TU Dresden, Research Associate, focus on energy efficient buildings, Linked Data. Interested to work with LBD community.
 - Katja Breitenfelder: attended LDAC 2019, Fraunhofer IBP & TUM

- Sander Stolk, infrastructure/building sector, helping companies to exchange and store Linked Data and OTL
- 2. Wrapup on property modelling LBD (Mathias Bonduel)
 - Slides available at: [\[LINK\]](#)
 - Presents modelling patterns: Abox vs. TBox
 - Recap property levels according to “OPM mechanism - LDAC Paper: [LINK](#)”:
 - i. Level 1: direct connection via dedicated property
 - ii. Level 2: intermediate property node between object and property value to group properties or add metadata
 - iii. Level 3: intermediate node between objectifies property and property value for evolving properties (e.g. version control)
 - iv. [Maxime] Another OPM paper has recently been accepted in Automation in Construction: "Managing interrelated project information in AEC Knowledge Graphs" [DOI](#)
 - v. OPM extends SEAS ontology
 - vi. implemented in IFctoLBD converter
 - List of competency questions based on the list of use cases and requirements of the LBD CG (slide 10) -> Additional use cases as input highly interesting
 - [Georg] there are many approaches out there for modelling properties - can these be aligned easily? Properties are not all the same (Property of an element, e.g. its height, or product data, e.g. is packing weight)
 - [Maxime] Links to presentation on TPAC 2018
 - i. Property definition is not only AEC relevant
 - [Walter] The usage of the term “state” in OPM is ambiguous, there might be a misunderstanding for instance with states in finite state machines
 - [Maxime] The requirement of properties to be generic is dependent of the use case at hand, cf. SOSA/SSN definition
- 3. Report on the topic of complex property modelling (inspired by OPM L2) proposed in CEN TC442/WG4/TG3 (as part of the “Semantic Modelling & Linking Standard (SMLS) for the built environment” (Michel Böhms)
 - Slides available at: [\[LINK\]](#)
 - Presentation of _a_ potential approach for modelling (complex) properties
 - Presents overview on his LBD standards landscape:
 - i. ISO TC59/SC13/WG8 ICDD
 - ii. CEN T442/WG4
 - iii. WSC LBD CG work
 - iv. bSI Technical room
 - v. CEN SMLS
 - vi. NL NEN NTA 8035 -> fast track
 - SMLS Property Proposal inspired by OPM Level 2
 - i. Objectification of properties
 - ii. Differentiates between Property and PropertyDefinition (PropertyDef)
 - iii. PropertyDef for grouping, e.g. all fire safety properties
 - [Jan Voskuil]: Modelling approach: restrictions could be modelled as SHACL shapes
 - [Michel]: To avoid punning, e.g. “hasSuperClass” property is introduced

- [Sigve] How can methods of measurements be linked to property definitions?
Relevant from the perspective of CPR
 - i. Meta-property of the property
- [Richard Pinka] Do you have a database to store the data?
- 4. Meeting with W3C Spatial Data on the Web Interest Group: 19th of November
 - reach out: <https://github.com/w3c/sdw/issues/1143>
 - face to face meeting in Toulouse with Spatial Data on the Web Interest Group on the 19th of November: <https://www.w3.org/2017/sdwig/meetings/f2f-5.html>
 - discussion on geometry definitions and the web: future initiatives of the SDW group and connection with LBD group

Previous minutes

https://docs.google.com/document/d/1q2Cp8w25-3ken-jmem4Efe_C_-x_924EaWc8D9MO--Q

Next Call

- [Tentative] early December 2019 -> WLS, north american LDAC by Aaron Costin
- [Tentative] 2019 -> Follow up on property modelling
- [Tentative] 2019 -> Revision and collection of use cases