Attendees:

- Georg Ferdinand Schneider (Individual CLA but affiliated with Schaeffler)
- Al-Hakam Hamdan (TU Dresden)
- Joel Bender (Cornell University)
- Gonçal Costa (LaSalle University)
- Mathias Bonduel (KU Leuven)
- Sylvain Marie (buildingSMART France)
- Alberto Giretti (UNIVPM - Italy)
- Edison Chung (MINES Saint-Etienne)
- Anais Guillem (University California)
- María Poveda-Villalón (Universidad Politécnica de Madrid)
- Katja Breitenfelder (Fraunhofer IBP / Technical University of Munich)
- Jyrki Oraskari (RWTH Aachen)
- Mads Holten Rasmussen (NIRAS)

Date and time

- 02/06/2020
- 17:00 - 18:30 CEST

Agenda (tentative)

1. Introduction
2. Organisational
    - Pause TelCo series on 16 June as concurrent to LDAC 2020

3. Clarify recording option
4. (45 min) The Damage Topology Ontology (DOT) - Overview on DOT and latest results on knowledge-based Approach for the Assessment of Damages to Constructions by Al-Hakam Hamdan (TU Dresden)
    - DOT https://alhakam.github.io/dot/
    - Hamdan, A. H., Bonduel, M., & Scherer, R. J. (2019). An ontological model for the representation of damage to constructions. In *7th Linked Data in Architecture and Construction Workshop*.
    - Hamdan, A. H., & Scherer, R. J (2019). A knowledge-based Approach for the Assessment of Damages to Constructions. In CIB W78

5. (45 min) BOT Github Topics
    - BOT Alignment revision
        - BOT2BRICK
            - https://github.com/w3c-lbd-cg/bot/issues/81

        - BOT2REC
    - Changes to version IRIs
        - https://github.com/w3c-lbd-cg/bot/issues/80
    - Restablish deleted property
        - https://github.com/w3c-lbd-cg/bot/issues/72
    - Resolve foaf problem #11
        - https://github.com/w3c-lbd-cg/bot/issues/11

Minutes

6. Introduction
    - Anais Guillem (University California)
7. Organisational
    - Pause TelCo series on 16 June as concurrent to LDAC 2020
    - RESOLUTION: Agreed on to pause: >>>JOIN LDAC 2020 (fully online)<<<
8. Clarify recording option
    - No objections, session of DOT will be recorded
9. (45 min) The Damage Topology Ontology (DOT) - Overview on DOT and latest results on knowledge-based Approach for the Assessment of Damages to Constructions by Al-Hakam Hamdan (TU Dresden) Recording
    - DOT https://alhakam.github.io/dot/
    - Hamdan, A. H., Bonduel, M., & Scherer, R. J. (2019). An ontological model for the representation of damage to constructions. In *7th Linked Data in Architecture and Construction Workshop*.
    - Hamdan, A. H., & Scherer, R. J (2019). A knowledge-based Approach for the Assessment of Damages to Constructions. In CIB W78

Projects where DOT was used:

DOT application in bridges:
https://www.wisib.de/ (unfortunately the website is only in Germany
DOT application in natural stone facades:
https://www.bim-sis.de/ (available in English and German)

-> Presentation has been recorded, the recording will be shared via internal email list after double checking with Al-hakam Hamdan
-> Property chain axiom to aggregate damage elements with damage areas
-> Qualification of properties established, Documentation/ ExternalResouce/ Description
-> Connect ontology data on damages with geometry in COLLADA using ICDD multi model container
-> Use case photogrammetric data combined with DOT instances

- Q [Georg]: From point cloud damages are extracted and have been annotated using DOT (Slide 15)

-> SHACL rule to identify transverse cracks with SHACL
-> uses sh:TripleRule and sh:SparqlRule

-> Knowledge-based damage detection and classification (Slide 20)

Questions:
Q [Alberto]: how to relate a damage to the geometry, position of damage to geometry?
- Link in ICDD container, geometry in collada
- Attach damage to component, important issue, bottom is much more important, added additional property longitudinalPosition, further research needed here.
- A [Mathias]: Linking to FOG/ OMG ontologies also possible

Q [Alberto]: Do you plan damage assessment/ diagnosis help by the ontology?
- Some rules for concrete bridge structures do exist

Q [Georg]: Standard

10. (45 min) BOT Github Topics
    - BOT Alignment revision
      - BOT2BRICK
        - https://github.com/w3c-lbd-cg/bot/issues/81
        - Q [Joel]: Has this been tested? Would be interesting to see the interplay with REC/BOT/BRICK Is there test buildings?
          a. Sample building Cornell University

          A [Georg]: Only bi-lateral definitions (BRICK2BOT by Jason Koh and Georg Schneider), need to test in real building, need to test across REC/BOT/BRICK testcase
      - BOT2REC
      - Accepted PR 79

    - Changes to version IRIs (to https://w3id.org/bot-0.2.0)
      - https://github.com/w3c-lbd-cg/bot/issues/80
      - Action: Check if change cause
      - Accepted

    - Restablish deleted property
      - https://github.com/w3c-lbd-cg/bot/issues/72
        - Resolution: Accepted
    - Resolve foaf problem #11
      - https://github.com/w3c-lbd-cg/bot/issues/11
        - RESOLUTION: Accepted

- Introduce vcard and schema.org based annotation
- Remove bNodes

Next Call

- 30/06/2020, Tue, 16:00-17:30@CEST/ 7:00-8:30@PDT/ 14:00-15:30@UTC

We are interested in getting suggestions from the community about potential agenda items for the following calls. Please send your suggestions to public-lbd@w3.org, whether you have a short presentation to bootstrap the discussion, and an approximate duration you think the discussion will last.

Previous minutes

https://docs.google.com/document/d/1Oi8zgtcfxyzE0c0Mfd0C2uiedl483flY_WbErHbPSes/edit