Attendees

- Kris McGlinn [TCD-ADAPT]
- Pieter Pauwels [Ghent University]
- Mads Holten Rasmussen [DTU / Niras]
- Jun Wang [Curtin University]
- Joel Bender [Cornell University]
- Pouya Zangeneh [University of Toronto]
- Anna Wagner [TU Darmstadt]
- Seppo Tormä [VisuaLynk]
- Odilo Schoch [ETH Zurich]
- Mathias Bonduel [KU Leuven]
- Aaron Costin [University of Florida]
- Richard Pinka [CTU Prague]
- Gonçal Costa [LaSalle University]

Date and time

- 25/09/2018
- 16:00 CET

Agenda

- Open Git Issues
- PROJECT ontology status
- IFC2LBD Convertor
- TPAC Preparation
- Open remarks (round table)

Minutes

1. Open Git Issues

- BOT ontology Git Issues
    - [Handled] Difference between bot:Zone and bot:Space
        - https://github.com/w3c-lbd-cg/bot/issues/38
        - This topic has been discussed in previous calls; the definition has been updated (https://w3id.org/bot#) in the last call, and this issue can be closed.
    - [Handled] Problems importing BOT into Protégé
        - https://github.com/w3c-lbd-cg/bot/issues/39
        - Resolved and closed.
    - foaf:name
        - https://github.com/w3c-lbd-cg/bot/issues/11:

        - There's a problem with defining and using foaf:name as a datatype property because of a "datatype and annotation property ambiguity" in the source foaf ontology (see https://mailman.stanford.edu/pipermail/p4-feedback/2011-July/004010.html). Other ontologies (e.g. SOSA, http://www.w3.org/ns/sosa/) use foaf:name as an annotation property.
    - Continuous Integration / Quality Assurance
        - https://github.com/w3c-lbd-cg/bot/issues/12
        - It might make sense establish an automated way to check a commit on consistency prior to merging it into the master branch.
    - Multiple languages
        - https://github.com/w3c-lbd-cg/bot/issues/14
    - Cardinality restriction on interfaces
        - https://github.com/w3c-lbd-cg/bot/issues/20
        - Mads: Cardinality restriction of interfaceOf is now 2. I think it would be better if it was minimum 2. A cold bridge can for example be an interface between a space, a window and a wall.
    - Where is the docs
        - https://github.com/w3c-lbd-cg/bot/issues/25
    - Should w3id.org/bot forward to https://w3c-lbd-cg.github.io/bot/ when header = html?
    - bot:Element and bot:Zone are stated to be disjoint classes but they are also disjoint with bot:Interface
    - bot:Space, bot:Storey, bot:Building and bot:Site should also be disjoint
- PROJECT ontology (https://github.com/w3c-lbd-cg/project)
    - https://github.com/w3c-lbd-cg/project/pull/1
- PRODUCT ontology
    - Alignment to e-commerce ontologies
        - https://github.com/w3c-lbd-cg/product/issues/2
    - ifcOWL alignment
        - https://github.com/w3c-lbd-cg/product/issues/3
    - DogOnt alignment
        - https://github.com/w3c-lbd-cg/product/issues/4
    - SOSA alignment
        - https://github.com/w3c-lbd-cg/product/issues/5
- PROPS ontology
    - Discussion about PROPS-PSET ontology (collection of samples)
        - https://github.com/w3c-lbd-cg/props/issues/2
    - Requirements with relation to Properties Ontology
        - https://github.com/w3c-lbd-cg/props/issues/3

2. PROJECT ontology status

- Project subgroup working document: https://docs.google.com/document/d/1hlsQxLXZI-0rupm4qKSOWuigy71l8fo0AvLg2bOcA1U/edit
- https://github.com/w3c-lbd-cg/project/pull/1 => ontology: https://github.com/w3c-lbd-cg/project/blob/7d4ca12e4a903798ca7805237e92c2f183b56fe8/UPonto-GIT-001.owl
- AACE - Society in Cost Engineering. Invited to technical meeting. Agreed to join this effort.
- How to deal with different properties, what exact terms and metrics to create consensus.
    - Namespace => use format that is also used for the other ontologies (w3id.org namespace)
    - No named individuals (countries?)
    - Definitions of properties and classes
    - Examples based on BOT ontology (naming conventions) => use similar approach
    - Add links to the other ontologies: primarily BOT (alignments as they are also done in the BOT project)
- Planning to start one year process. Beginning in October.
- Odilo (agrees) + (to join)
- Would be good to have multiple members from different parts of the world due to differences in approaches.
- Seppo: Management of data during construction and operation, sensor data, etc. how can we refer to these aspects in a more general way for project management?

3. IFC2LBD Convertor

- https://github.com/jyrkioraskari/IFCtoLBD
    - How to manage conversion to props ontologies
        - Limit to properties sets associated with products
    - Have a core ontology, e.g. hasProperty, and then extensions, buildingElements, Furniture, etc.?
    - Props ontology should be more generic, e.g. props:area and then some extension for props:greenAreaDutch (for example)
        - Similar modular approach as PRODUCT could be used with generic properties that can be extended
    - Do we also look at providing SHACL shapes (e.g. restrictions needed for applications, validation of data)?
        - First we need the ontologies/vocabularies, then if enough use cases have specific requirements, this could be done
        - Also part of the standardization?
    - How do we check if RDF is valid according to ontology?

4. TPAC Preparation

- Important Dates 22nd October
- https://www.w3.org/2018/10/TPAC/Overview.html
- Attending: Pieter Pauwels, Kris McGlinn, Maxime Lefrancois
- Online-presentation of Mads for BOT asked
- List of participants available online for our LBD community group meeting: Web of Things interest group has participants, so we should have informal discussions with them.
    - Building as thing, entities (sensors, etc.) as things, (could lead to growing complexity)
    - “Functional” locations can also be very important - what kind of sensor, how it relates to how equipment operates. Knowledge of type of sensor gives some implicit knowledge about where it might be
- Goal: have a LBD WG charter that can be spread and agreed upon by room participants => gathering support.
- Question: to what extent should geometry be part of our Community Group?
- In Lyon we should have some working examples building, what kind of geometry, what kind of sensor data

5. Introduction of new participants

- Aaron Costin: University of Florida
    - Information & Data exchanges
    - Bridge modelling, collecting data from industry to put it into ontologies to create taxonomies
- Joel Bender: Cornell University, NY
    - Modelling facilities of Cornell University (HVAC, system performance), looked into Haystack
    - ASHRAE 135, ASHRAE 201, ASHRAE 223P
    - Finding out relations between IFC, BOT, BRICK and sensor data for FM, and how to bind them together
- Jun Wang: Curtin University, Australia

6. Open remarks (round table)

Previous minutes

https://docs.google.com/document/d/1SXjROsqGqyL6bbnUIHCLbSmeBhBU29HNftCEy-vEcfM/edit#

Next Call

https://docs.google.com/document/d/1hp5U54NDlwWAdnV_zBaKHt4D7mqtUuhPSsA1hkBjzLs/edit