Attendees

- Pieter Pauwels [Ghent University]
- Sandra Gannon [IBM]
- Kris McGlinn [ADATP-TCD]
- Maxime Lefrançois (Univ. Lyon)
- Walter Terkaj (ITIA-CNR)
- Georg Ferdinand Schneider (Fraunhofer IBP)
- Saeed Karshenas
- Seppo Törmä [Aalto University / VisuaLynk]
- Pouya Zangeneh [University of Toronto]
- Ana Roxin (Univ. Burgundy)

Date and time

- 23/03/2017
- 17:00 CET

Agenda

- 1. short introductions and state of affairs (5min. Pieter)
- 2. presentation of SEAS ontology (20mins Maxime)
- 3. ontology alignment approaches (20mins Ana)
- 4. open slot (15 min)

Minutes

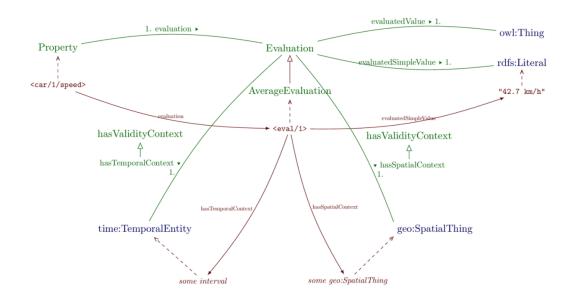
- 5. short introductions and state of affairs (5min. Pieter)
 - New members introduce themselves, and their interest in the group (Pouya Zangeneh - University of Toronto)
- 6. presentation of SEAS ontology (20mins Maxime, link to the slides:

www.maxime-lefrancois.info/docs/Lefrancois-201703-SEAS-for-LBDW.pptx

- SEAS ITEA Project outcome (achieved ITA award)
- http://ci.emse.fr/seas/
- o Presentation focus knowledge model

- Large range of domains (demand response, contracting, energy generation/load/storage/etc., see slides for more
- Partners wanted to use semantic web, but were unaware of OWL and RDF.
 Mostly using JSON
- o Ontologies like SAREF were not yet available when project started
- Existing ontologies did not cover the entire targeted domain
- Needed a simple core that
 - Covers most of partner's needs across all domains
 - Makes use of 'ontology patterns'
 - Is easily extensible towards new domains (HVAC, automation, SSN, ...)
- Extensions to the core
 - Mads is developing extension for HVAC
 - Extends SSN (and future version, SSN Sensors, Observations, Sample,
 Actuators SOSA), may result in naming of terms change)
- The core consists of ontology patterns
 - E.g. each property is defines as a subproperty of :hasProperty
 - :Car :hasSpeed 1. => :hasSpeed is subproperty of :hasProperty
 - Link observation to seas:FeatureOfInterest
 - How to account for changes in the value of Speed (in the example of Car)
 - So it is a sort of metalanguage on top of the actual ontologies. Example:

the **Evaluation** ontology pattern



- Also provides models of Systems
 - Qualify systems (building, room, appliance, set of appliances, a business partner)
 - Qualify connection points (wall, window, ceiling, plug socket, offer, demand)
 - Qualify connection flows (Electric, water, coms data)
- Pieter: Sounds like an upper level ontology, so what is the added value
- Maxime: targeting engineers to develop, most existing upper level ontologies
 (e.g. DOLCE) are designed by philosophers
- Available @ https://w3id.org/seas/ published according to best practices on the web
- Important: the single URI refers to a number of SEAS ontologies. In our LBD Community Group, we are currently combining a number of namespaces, with each namespace standing for a specific ontology.
- Maxime: How to get experts to contribute to SEAS?
 - automatic pattern instantiation techniques

- https://github.com/thesmartenergy/seas
- 2nd SEAS Workshop: Data Interoperability during the Building Life-cycle, 4-5th of May @ Engie, Paris, France (Free and open)
 http://data.the-smart-energy.com/workshop/2017/05/
- Walter: What is the relationship between the evaluation module and SSN?
- Maxime: Evaluation module is out of scope for SSN. The process of assigning observationResult to an observation is outside SSN?
- Walter: What is the need for ssn:Sensor Output?
- Maxime: Now there is a property hasResult, or hasSimpleResult which links from an observation to a literally directly
- Walter: When will this be published?
- Maxime: End of June
- Pouya: Are you in line with the experts in the SEAS projects for working knowledge from the different groups.
- Maxime: These partners were very busy working on their own algorithms, and were not always available
- 7. ontology alignment approaches (20mins Ana)
 - Presents the structure for the alignments
 - Several main questions regarding alignment
 - https://docs.google.com/document/d/1wSxpE5O6jntcluhey7Uv0o0ZAU1
 Dz-ZSICuuxbwGvCA/edit?ts=58c7c79a#
 - Pieter: The main idea was to have sub-groups develop modules, and link, each module representing certain parts of the data relevant to building
 - Now maybe need to reproduce some data, e.g. 'Building'
 - The approach taken in the Building Control report is quite good; Ana: we would like to recommend it:

https://docs.google.com/document/d/1wPdWzVW8_NPCu1k77l1AcbGpljqyzuw qQSyuMZ_eJDw/edit#

For each of the groups defined:

- Building Topology
 - o Mads Holten Rasmussen, Pieter Pauwels, Walter Terkaj, Hendro Wicaksono
- Geometry
 - Kris McGlinn, María Poveda Villalón
- Automation and Control devices, control logic etc.
 - o Georg Schneider, Zohreh Pourzolfaghar, María Poveda Villalón, Walter Terkaj
- Energy Efficiency
 - Kris McGlinn, Laura Daniele, Matthias Weise, Vladimir Vukovic, Michel Böhms, Odilo Schoch, Hendro Wicaksono
- Project management
 - Odilo Schoch, Saeed Karshenas
- Heating, Ventilation, and Air-Conditioning (HVAC)
 - o Mads Holten Rasmussen, Vladimir Vukovic
- Products
- 1. First step: Choose existing ontologies that need to be compared. Make an exhaustive list of all available vocabularies/ontologies in the considered domain similar as the "Revision of and relation to existing Ontologies" section in the BACS doc

http://smartcity.linkeddata.es

http://lov.okfn.org/dataset/lov/

- 2. Second step: Extract modelling requirements from them, in terms of competency questions: what questions should I be able to answer if the ontology I use is adapted?
- 3. Third step: Pick a use case adapted for the considered domain, and model it with the ontologies choosen before As in "Scenario modeling with and ifcOWL-based ontology" in the BACS doc

https://docs.google.com/document/d/1wPdWzVW8_NPCu1k77l1AcbGpljqyzuwqQSyuMZ_eJDw/edit#heading=h.q3ek0v1gzxg7

8. open slot (15 min): discussing SEAS workshop, LDAC workshop, and other events one may physically meet

Action items

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Previous action items

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Previous minutes

Next Call

• 04/04/2017 11:00 CET @ gotomeeting