Attendees

- Kris McGlinn (TCD)
- Pieter Pauwels (Ghent University)
- Maxime Lefrançois
- Ana Roxin (Université de Bourgogne)
- Georg Ferdinand Schneider (Fraunhofer IBP)
- Zohreh
- Seppo Torma (Aalto University)
- Walter Terkaj (ITIA-CNR)

Date and time

- 14/03/2017
- 11:00 CET

Agenda

1. outside news and review of overall management
2. short update by domain leaders about status of alignments
3. use case update
4. any other items for discussion (open for suggestions**)**

Minutes

5. outside news and review of overall management
    - <AP - Kris> Make Calendar of dates and send out
6. short update by each domain leader about status of alignments
    - Georg: Automation and Control - presents document which they are working on
    - https://docs.google.com/document/d/1wPdWzVW8_NPCu1k77l1AcbGpljqyzuwqQSyuMZ_eJDw/edit#heading=h.q3ek0y1gzxg7
    - Presents alignments between several ontologies (IFC, SOSA, etc.)
    - Maxime: Can ifcSensor and SOSA: sensor be equivalent?
    - Walter: We can do this, but if we want to be more practical for applications, I am afraid this is no feasible (not a complete/full mapping between the 2 ontologies). The concepts would need to have same constraints. Might be easier to suggest

one is a subclass of the other. Choose a ‘master’ ontology. Otherwise there is a high risk of duplicated concepts.

- Walter: Also about sensors, these are considered slightly out of scope. It must be discussed if the alignment is already carried out by some other sub group. For automation and control, sensors are for monitoring.
- Maxime: aligning the sensors may be out of scope, but aligning “sensors” in ifc & SOSA underpins similar problems as in ifc & SSN alignment
- Pieter: Maybe we should propose a number of alternative alignments between groups.
- Ana: There are several sub groups, and these are investigating alignments in different areas. Is there a methodology we are applying to developing these?
- Pieter: The alignment sub-group is looking at these.
- Ana: Do we have a common output format? Otherwise we have initiatives in all the subgroups. Would be nice to discuss common output formats, how the work the sub groups do is pushed to the alignment group.
- Georg: Original idea was to split the groups up. But it would be good if there was some documentation output which we can then use.
- Pieter: each subgroup writes a report, documenting the ontologies studied. The reports could be made available on the webpage (e.g. Domain Ontology Groups), thus easing the access to the related google Doc (maybe use the template defined by the Building Automation and Control Systems subgroup)
- Zohreh: If we could have a Google Doc template for requirements for these types of alignments
- Ana: Yes, we can generate one of these. For example, indicate which concepts are synonyms, what rules and properties are the same, etc.
- Georg: Have implemented a controller in Modelica. Plan is to integrate with the information stored in a knowledge-base implemented by Walter.
- Walter: Discusses the the key classes and their relations used to model how an object can described in terms of states and performance indicators and how it is

possible to track the history in terms of evolving states and performance observations (see documentation).

- Zohreh: Could you please go to the automation process - here we need a link to existing automation processes. Working with an existing standard ISO
- Georg: How does this link with design processes?
- Pieter: This could fall under the project management group. This explores processes. Hard to know whether we can capture all of these.
- Zohreh: My expertise falls in this area, so I think it is important to use this as a link to automation area.
- Pieter: Linked Data is about data, processes consume data. Should we put into the data, or to describe the applications?
- Zohreh: We need to know these processes to track data movement.
- Pieter: Maybe we can look at an example to make specific. The idea is to move data into simulation, run simulation, generate new data
- Georg: Not a data consuming process. To clarify, maybe this is more in the direction of BIM, identifying stakeholders, processes, etc. Is the group addressing the question of whether we are just dealing with the data exchanges, or whether we need to link this to the over all processes and how data is exchanged across the life cycle.
- General agreement: Let us focus on the data exchanges for now.
- Pieter: We should not only explore alignments with ifcOWL, maybe look at other ontologies? Like BOT maybe, and device and geometry ontologies. This is work that needs to be done (I will be doing some of this).
- Ana: We should be looking at the modularisation of ifcOWL. I would also suggest the SEAS ontology for alignments. Could be a nice starting point.
- Pieter: Maybe we could have a presentation on SEAS?
- Ana: Once we have the modules, the alignments will be easier.
- Maxime: SEAS is about creating an ontology based on SSN/SOSA. What I suggest is I will do a presentation of SEAS. How to align ifcOWL with SEAS.

SEAS is open source, so anything SEAS misses, it can be added quite quickly. I will present core modules, and the fact that it is extensible.

    - Ana: I cannot check alignments between SEAS and ifcOWL before end of April. With Maxime we'll prepare a template for defining an alignment between ontologies, this document will be shared with the group next meeting (March 23rd).
    - Pieter: You could examine a smaller ontology?
    - Maxime: Or pick some concepts from an ontology.
7. use cases
8. any other items for discussion (open for suggestions**)**

Action items

- Sub-groups to continue working on the development of use cases and data alignments with BOT and other ontologies

Previous action items

- All Sub-groups take Wiki Use Cases and Identify Use Cases which are relevant (All Group Leaders - 2nd March)
- Update Linked Building Data site <AP - Kris, Pieter> (ONGOING)
- Provide use cases <AP - All> (ONGOING)
- Review geometry models to support BOT <AP - Maria, Kris> (ONGOING)
- Review the BLC stages and data domains <Michel - Ongoing> (ONGOING)
- Provide a list of competency questions for BOT <Mads> (ONGOING)
- Coordinate efforts on GitHub <Kris, Maxime> (ONGOING)
- Generate overview and external facing document/slides <Ana> (ONGOING) - published on the w3C website
- Manage iterations of ontology (BOT) <Mads, Maxime> (ONGOING)

Previous minutes

Next Call

- 23/03/2017 17:00 CET @ gotomeeting