

OEO Developer Meeting #11

* <https://etherpad.wikimedia.org/p/oeo-dev-11>

Date:

* 2020-11-11 14:00 - 18:00

Participants: Christian Hofmann, Michaja Pehl, Simon Flügel, Valeria, Kevin Knosala, Vera, Janna Hastings, Meisam Booshehri, Carsten Hoyer-Klick, Mirjam, Lukas Emele, Anna Kleinau

* moderator: CH

* protocol: Mirjam

* next meeting organiser:

Preparation:

- Read last protocol:
- <https://etherpad.wikimedia.org/p/oeo-dev-10>
- (<https://github.com/OpenEnergyPlatform/ontology/wiki/OEO-developer-meetings>)
- Check issues for next release:
<https://github.com/OpenEnergyPlatform/ontology/milestones>

Agenda:

Papers: Keep all authors of the original EKAW paper and add the authors of the new papers.

1. Organisation

- Contributors in the different papers. How do we proceed @Magdeburg?
 - suggestion: all authors on both papers (not split by currently working teams). agreed.
 - HF: Question to OvGU: Could you complete Lukas' graphic, of the OEO modules and adapt the text?
 - https://app.lucidchart.com/lucidchart/7fece9e0-e29d-4531-8e67-8d204ef64e91/edit?page=0_0#?folder_id=home&browser=icon
- How will we continue working on the ontology after SzenarienDB has ended? Who has time?
 - Will ontology experts from Magdeburg be available? Who and with how much time?
 - Janna will be funded until March, Anna, Simon will be available until end of this year and maybe/possible longer
 - LOD-GEOSS will continue, our work package goes until summer officially, but the project is going to continue and we're happy to continue work on it
 - we should think about project independent funding. CHK is going to stay around. We should set up a process to survive change of personell

- Will LOD-GEOSS take over the developer meetings? How much time can they spend on OEO development?
- General development questions:
 - If/When a basic structure is available, can there be a simple set of rules on how to implement new terms? Can we collect and sort (new) terms into groups and then implement them?
 - when you are broadening the scope there will always have to be discussions
 - when you have examples of terms that are similar to the ones still needed to be added this should go much quicker
 - in the beginning we did include many terms but figured out that some things are structurally different and the process of working these out took a much longer time. conclusion was it's faster to go slow and thorough than having to fix things later on
 - ontology experts could implement bigger terms and domain experts can work on specific words
 - consensus is difficult to reach. having subgroups could work to speed things up. assigned people could form a subgroup.
 - smaller group should sit together and think about option and present those in the next meeting (Janna and Anna are inviting)
 - Womanpower: How and when can we bring external people into the development? When can a structure be considered good enough that no fundamental discussions should arise anymore? Are there examples of ontologies that have been adapted and the development was carried on by ontology non-experts?
 - CH invites people to think about this. (I would take part in this - Carsten)
 - Expectations: What do we need to implement until when? Any Deadlines?
 - All factsheets should be done until end of SzenarienDB - not realistic, but it'd be nice. Maybe we can implement a prioritisation of issues
 - LOD-GEOSS didn't make precise list of terms. If we want to be able to annotate the datasets that are coming up
 - entire AMC-template list.
 - maybe boil things down to realistic goals
 - Will fundamental questions always come up? What is needed for ontology-non-experts to take over development
 - at some point we should converge and continue to keep opening up new fields
 - Within LOD-GEOSS we will compile lists of necessary terms
 - list for IAMs: <https://github.com/OpenEnergyPlatform/ontology/issues/593>
 - Setup of small teams of an ontology expert and a domain expert.

2. Questions from Steering Committee (Hermann Bense)

- These questions were very technical and we had no ontology expert from Magdeburg there to answer. Johannes helped with a few questions. Can I CH refer to someone who would be able to answer Hermann Bense's questions? Here are some from the protocol (I was unable to document them all and I believe they are missing some context.)
 - Are instances in owl always modelled this way?
 - redundant lines
 - auto-import-tool doesn't work @Johannes should have a look at this
 - Why BFO IAO-classes and object properties plus a restriction in owl file. It seems to be small. It does import other ontologies, but it also contains content itself. Structure appears to be confusing. Should be machine readable
- archivio can't read license, doesn't understand oeo for some reason

- CH can put Janna in touch and she can try to answer questions

3. [KK] Bedingungen für die Werte von Attributen so formulieren können, dass damit mittelfristig Datensätze validiert werden können. Es bietet sich die Shape Constraint Language (SHACL) zur Formulierung dieser Bedingungen an, welche als W3C-Standard vermehrt genutzt wird und auch mittels Plugin in Protégé integriert werden kann. Ich würde gerne wissen, welche Erfahrungen es in dieser Richtung in der Gruppe schon gibt und darüber diskutieren, welche Strategie angestrebt wird um die Datensätze mit der Ontologie nicht nur annotieren sondern auch validieren zu können.

simple example: hub height of a wind turbine can only be positive. Useful feature to have. Maybe time steps can be one of those examples. Maybe this applies mostly to quantity value classes.

- we should explore this, JH is not an expert in this however. we'd need to define patterns first. a workflow would need to be put in place
 - ➔ the ontology should be applied (first application is ontology factsheets) in order to show why it's good.
 - ➔ there should be a formal strategy to validate the quality of the structure. ontoclean would be an example
 - ➔ there should be a list of competency questions and in the end when evaluating we can tick boxes
- coverage of terms in domain
- e.g. scenario, what's its license?
- check adequacy of terminology/ taxonomy avoid inconsistencies
- apply ontology in application
 - Is there a need to describe constraints of values for attributes?
 - yes this can be a competency question

question on protege

- why is something else needed if we can put constraints on classes?
- applying existing options might be enough. we need to discuss this on a specific example

conclusion: It makes sense to think about the form of implementation of such constraints

the normal process is looking for a new class and checking if a new constraint is.

questions to answer: what does the ontology need to describe/ do then we can conceptualize it.

On Topic:

- issue <https://github.com/OpenEnergyPlatform/ontology/issues/572>
 - " start time and ending time don't work as they should "
 - we don't want to include individuals of temporal regions-> close the issue
 - if this comes up again we can try to solve it again.
- Issue <https://github.com/OpenEnergyPlatform/ontology/issues/16> (daQ Ontology)
 - ➔ Anna: I made a small presentation and will be able to join the meeting at around 3pm
 - ➔ discuss if the ontology for dataset quality information should get included
 - nobody needs daq right now, so we'll close the issue and name the ontology in the wiki as a potential ontology to get included when a use case arises

issue <https://github.com/OpenEnergyPlatform/ontology/issues/481> (potentials)

- has_potential : subproperty of has_quantity_value
- individuals get the property
- potential as class that is a quantity value

A flow potential is a quantity value that describes the upper limit of an input or output value of a process in an n-dimensional region per time unit. For example the wind flow potential of Germany is the amount of energy available to wind power plants in Germany.

A stock potential is a quantity value that describes the upper limit of a stock value of a source or sink in an n-dimensional region. An example is the coal potential of Germany that is the amount of coal available in the soil in Germany.

➔ text definitions in smaller group: Carsten, Michaja, Kevin, Vera

preparation for following meetings: CH

OEO-DEV-12: 09.12.2020