

## OEO Developer Meeting #29

### Pads:

- Pad to this meeting: <https://etherpad.wikimedia.org/p/oeo-dev-29>
- Pad for next meeting: <https://etherpad.wikimedia.org/p/oeo-dev-30>
- Notes from last meeting: <https://etherpad.wikimedia.org/p/oeo-dev-28>

**Date:** 16.12.2021, 10:00 -- 12:00 a.m.

**Participants:**MS, JH, LE, CH, C, AM, LH, K, HF, VS

- moderator: MS,
- main reporter: Christian
- next meeting organiser: Kai

### Preparation:

- Read last protocol:  
<https://github.com/OpenEnergyPlatform/ontology/wiki/OEO-developer-meetings>
- Check issues for next release:  
<https://github.com/OpenEnergyPlatform/ontology/milestones>
- Load software (GitHub, git, Protégé, DFN)

### Agenda:

- Release v1.8.0 done on 2021/12/01: 31 issues solved yay \o/ \o/
- Convention: When opening an issue for new terms, please try to at least to formulate a draft definition for your new term. It doesn't have to be an aristotelian definition yet. Thanks.
  - adapt the template to specifically ask for one
  - - [ ] every entry in the ontology should have a definition
  - CH can do this
- Include math. formulas in the OEO (LH)
  - [https://en.wikipedia.org/wiki/MathML#Example\\_and\\_comparison\\_to\\_other\\_formats](https://en.wikipedia.org/wiki/MathML#Example_and_comparison_to_other_formats)
  - Even short formulas need to be addressed in XML-like long statements
  - Not all browsers support it
  - In comparison Latex looks easier and can be used directly in documents
  - [https://www.overleaf.com/learn/latex/Mathematical\\_expressions](https://www.overleaf.com/learn/latex/Mathematical_expressions)
  - Example: Gross national electricity consumption  
<https://github.com/OpenEnergyPlatform/ontology/issues/916>
  - open question: will anything break if we use latex - we have to test
  - where to put this?

- new type of annotation,
  - don't overload a different annotation property
- LH will try to add a property until next time
  - example: unit compositions
- Presenting the OEO-Viewer and Text View page
  - <https://openenergy-platform.org/viewer/oeo/>
  - [https://openenergy-platform.org/ontology/oeo/BFO\\_0000001](https://openenergy-platform.org/ontology/oeo/BFO_0000001)
  - Improve navigation in each module and between the two
  - Add a generated version number of the OEO
  - Add direkt links to the top bar
    - Textual Viewer
    - Graphical Viewer
  - an issue exists for adding a search in the text viewer
  - Ontology
    - overview
    - explore visually
    - explore textually
  - Overview has ontologieS, but lists only the oeo and it's kind of difficult to finally get to the OEO
  - The graphical viewer is rather hidden
  - rename modules page to something like oeo modules
    - the modules have descriptions in the OEO which should be displayed on that page (dc:descriptions in OEO modules and rdfs:comment in imported modules)
  - draft an issue on the oeplatform repository
- URGENT: log4shell in Protégé
  - noooooooooo
  - Keine offizielle Infos von den Machern. Ein manueller Suchlauf hat es gefunden.
  - Das ganze Programm Löschen wäre die Methode mit dem Hammer. Alternativ kannst du versuchen, nur die betroffene Bibliothek zu löschen (Läuft das Programm dann noch?) oder die Bibliothek mit der gepatchten Version 2.16 zu ersetzen.
  - log4j-over-slf4j.jar is used in Protégé, developers of that write that log4shell is not a problem here, as they are on the 1.x versions: <http://www.slf4j.org/log4shell.html>
  - 5.5.0 stable that comes in the bundled jre should be safe, but do check you own versions
  - ...\\Protege-5.5.0\\bundles\\log4j-over-slf4j.jar
  - shouldn't be super critical for us, because protege doesnt use any open ports and loading resources is limited to loading ontologies,
  - but asking for information cannot hurt
  - LH will contact the developers
  - Note: The person who is responsible for Protege at Stanford is (or used to be - not 100% sure if he is still there) Matthew Horridge

(<https://web.stanford.edu/~horridge/>)

- <https://github.com/protegeproject/protege/issues> --> LH
  - <https://github.com/protegeproject/protege/issues/1038>

5 min Break

- (Please not before 11:30 )Follow-up on shortcuts:  
<https://github.com/OpenEnergyPlatform/ontology/issues/492>: preparation by MG and AM => moved to next OEO DEV meeting

postponed to next Meeting because Patrick cannot join

- **RDF/SHACL** discussion is a larger discussion. bigger than possibly our current project. so maybe a good follow-up project. rdf based technology database. Let's talk about that some more! Maybe let's talk about that more next week.
  - Nested triples using existing oeo classes
    - advantage: smaller and better OEO
    - dis: complicated and long rdf
  - Shortcut in the OEO
    - advantage: easy triples and rdf
    - dis: more classes in the OEO
  - SHACL hack?
    - middle layer
  - Create real life examples to showcase
- Continue with discussion on costs (wait for Hedda to discuss the following two -> next meeting)
  - <https://github.com/OpenEnergyPlatform/ontology/issues/891>
  - <https://github.com/OpenEnergyPlatform/ontology/issues/891#issuecomment-972775251>
- ramping parameters (Hedda)
  - <https://github.com/OpenEnergyPlatform/ontology/issues/948>
- has economic value
  - <https://github.com/OpenEnergyPlatform/ontology/issues/958>
  - is quantity value fitting?
  - relation has\_economic\_value
    - could be used in other situations
  - carbon price #866 is still open
    - corresponding pr was merged
  - emission certificate price as a label (CO2 price as alternative)
  - relation would be relation between an entity (domain) and an economic value (range) that measures an economic value of an entity
  - when would we add this relation?
    - an relation that measures an economic value of an entity (fee, gdp, cost ...)

- also add it to the definition
- (fee doesn't equal cost, because it can be more or less than the actual costs)
- example:
  - pile of potatoes: price of that
  - missing context in definition?
  - or is economic value general enough do account for this?
    - yes!
- include economic\_value\_of as sub-property of is\_about
- MS can implement
- further thinking ideas for when it fits :
  - <https://etherpad.wikimedia.org/p/money-related-things>
    - Glenda Amaral, Tiago Prince Sales, Giancarlo Guizzardi, Daniele Porello, Nicola Guarino (February 2020): *Towards a Reference Ontology of Money: Monetary Objects, Currencies and Related Concepts* <http://ceur-ws.org/Vol-2574/short17.pdf>
    - Glenda Amaral, Tiago Prince Sales, Giancarlo Guizzardi, Daniele Porello (Nov 2020): *Reference Ontology of Money and Virtual Currencies* [https://www.researchgate.net/publication/344319182\\_A\\_Reference\\_Ontology\\_of\\_Money\\_and\\_Virtual\\_Currencies](https://www.researchgate.net/publication/344319182_A_Reference_Ontology_of_Money_and_Virtual_Currencies)
- Origin
  - <https://github.com/OpenEnergyPlatform/ontology/issues/974>
  - biogenic, geogenic
  - add to definition: origin of primary source is inherited.
  - Mixed origins are possible (e.g. ren. H2 and fossil CO2 in syn. Methan)
  - Improve the definition with these comments, adding more is difficult
- How to apply these rules
  - [https://en.wikipedia.org/wiki/Semantic\\_Web\\_Rule\\_Language](https://en.wikipedia.org/wiki/Semantic_Web_Rule_Language)
- this would be a good demonstration scenario for knowledge graph
- we proceed by adapting the definition and adding this text
- revisit in a few months after we have the OEKG and more instance data
- *Origin is a quality of a portion of matter or energy based on where it comes from. It is inherited from its primary sources.*
- add three (2 time fossil?) bullet points from issue as rdf:comment
- Biomass has a biogenic origin and if it is converted to biogas, the biogas inherits the the biogenic origin.
- Hard coal which has a fossil origin and if it is used in a coal power plant to generate electrical energy, the electrical energy inherits the fossil origin.
- Wind energy which has renewable origin and if it is converted to electrical energy using a wind turbine, the electrical energy inherits the renewable origin.
- LE can implement this

