- **OEO Developer Meeting #25**

Pads:

- Pad to this meeting: https://etherpad.wikimedia.org/p/oeo-dev-25
- Pad for next meeting: https://etherpad.wikimedia.org/p/oeo-dev-26
- Notes from last meeting: https://etherpad.wikimedia.org/p/oeo-dev-24

Date: 07.10.2021, 10:00 -- xx:xx

Participants: Mirjam, Vera, Kai, Carsten, Martin, Christian, Hedda, Adel, Janna

- moderator: Vera
- protocol: Christian
- next meeting organiser: Carsten

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

- Phase-out plan for LOD-GEOSS project in oeo-dev @CH @CHK
  - RLI focus on Metadata keys, Framework concepts
  - DLR meteorology
  - technology data issue
  - LOD-GEOSS contributions will slowly fade out. official end of the project is July, but we're looking into an extension
  - There are things that need to be delivered, but they might not follow the original plan
  - DLR would like to create a continuous effort with less dependency on project funding. Helmholtz funding might be an option.
- Do we want / need an annotation property that indicates the MODULE a class is part of?
  - PRO: Especially for classes from oeo-shared that would be helpful.
  - CON: Takes some time and needs to be maintained (when not automated).
  - Create automated annotation for module identification #870 @Mirjam
  -
    - https://github.com/OpenEnergyPlatform/ontology/issues/870
  -
    - don't create an automated process
    - it'd be ok to deal with it with every release

- there'd be a constant difference between development and release version
- scenario: class definition update in new branch. while that is happening we create release branch, change annotations and the new branch has a merge conflict
- proposal hidden annotation option
  - added and moved classes and axioms
  - MG + AM will do a nerdy deepdive on this
  - Put this on the next meeting's agenda
- splitting class definitions and axioms into different modules #874 @Janna
- https://github.com/OpenEnergyPlatform/ontology/issues/874
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  - owl allows axioms to be in any module
  - there will always be axioms that bridge between modules
  - the language itself makes not difference between those kinds of axioms and others
  - we as developers would want those to appear all in one specific module
  - background is that we didn't want to move everything to oeo shared, especially when working with classes low in the hierarchy
  - options
    - lose modular nature
    - lose context when editing
  - advantage of modules:
    - originally we had many merge conflicts which can be mitigated by having modular files
    - you know where to look for specific terms
  - now there aren't so many concurrent edits anymore, but that might also be a phase
  - for the time being, when we need to have many axioms crossing content it should move to oeo-shared.
  - @MS posts this in the issue. if former issue is solved we can come back to this
- update `term tracker item` instruction (Kai)
- https://github.com/OpenEnergyPlatform/ontology/wiki/term-tracker-item
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  - add in instruction: brief description above links
  - it wasn't in the wiki, so it should be updated
  - inform people in developer's list? not necessary, bc we're all here and LE is aware
  - @Kai can update the wiki

10:44 Short Break Back at 10:50

- Meta Issue: Collection of new OEO terms originating from LOD-GEOSS @Hedda
- https://github.com/OpenEnergyPlatform/ontology/issues/822
- New non-existent concepts:

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    - Unit --> related to issue #465 (discussion on "device")?
        - I could find that term only in the sense of measurement unit for a physical parameter not as "Generating capacity for one unit".
        - the two are different concepts, similar discussion in device issue
        - suggestion by simon
            - https://github.com/OpenEnergyPlatform/ontology/issues/465#issuecomment-937543348
        - have different incarnations of what this term unit confers
            - measurement unit -> rename original "unit"
            - numbering item for energy transformation unit
                - power generating unit is already there (in oeo shared)
                - proposed class energy transformation unit with power generation unit as a subclass
            - add more abstract unit term when needed
        - this would also solve the device issue
        - @Mirjam implement simon's solution 2 (issue #465)
    - Average
        - alternative term to arithmetic mean
        - note: alternative terms don't have to be unique
        - @Hedda tries to implement. Should questions arise, contact Christian
    - Annual
        - Exists in the combined term "annual Emission allocation"
        - Implement is as a separate term?
            - If yes: TimeUnit?
            - We have timesteps, typical period
            - combine timestep year and integral?, alternative term annual?
            - individual of time resolution #849 --> add also other resolutions (hourly, dayly, weekly...)
    - Forced outage / planned outage
        - entity/continuant/occurrent/process
        - when generating unit does not provide power.
        - should be a process
        - relation to quantity value: outage has quantity value some time unit
        - An outage is a process during which an artificial object cannot perfom or operate.
            - relation: e.g. energy transformation unit participates in an outage
            - energy transformation unit cannot transform energy for maintenence reasons or because of a failure.
            - subclasses:

- - - planned outage: A planned outage is an outage during which an artificial object is being maintained.
    - forced outage: A forced outage is an outage of an artificial object caused by a failure.
  - what about power outage?
- Curtailment:
  - entity/continuant/occurrent/process
  - Curtailment is a process in which a power generating unit is forced to reduce its output, in order to balance energy supply and demand or due to transmission constraints. --> agreed on

power outage = power grid participaes in forced outage

meeting ends here at 12 pm, more terms in next session

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  - Space requirement
    - entity/continuant/generically dependent continuant/ information content entity/quantity value
    - entity/continuant/specifically dependent continuant/ quality
  - Capacity factor
    - entity/continuant/generically dependent continuant/ information content entity/quantity value
    - entity/continuant/specifically dependent continuant/ quality
    - entity/occurrent/process attribute/ (emission factor)
- Extensions to existing concepts:
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  - Variable operation & maintenance costs
    - entity/continuant/generically dependent continuant/ information content entity/quantity value/economic value/cost
  - Cost of Equipment
    - entity/continuant/generically dependent continuant/ information content entity/quantity value/economic value/cost
  - Cost of grid connection
    - entity/continuant/generically dependent continuant/ information content entity/quantity value/economic value/cost
  - Cost of rent of land
    - entity/continuant/generically dependent continuant/ information content entity/quantity value/economic value/cost
  - Cost of decommissioning

- - entity/continuant/generically dependent continuant/ information content entity/quantity value/economic value/cost
  - Other costs
    - entity/continuant/generically dependent continuant/ information content entity/quantity value/economic value/cost
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  - Rotor diameter
    - entity/continuant/independent continuant/material entity/object/EnergyConvertingDevice/Turbine
    - entity/continuant/specifically dependent continuant/ quality
  - Specific power
    - entity/occurrent/process attribute/power
    - specific separate?
  - Lifetime
    - entity/continuant/specifically dependent continuant/ quality
  - Construction time
    - entity/continuant/specifically dependent continuant/ quality