REC TC Meeting Minutes

October 5, 2022

Attendance:

- Karl Hammar (chair)
- Erik Wallin
- Peter Hartlev

Absent

- Per Karlberg
- Joakim Eriksson
- Akshay Johar

Housekeeping

1. Membership roster TC
   a. **DECISIONS:**
   b. Per and Erik will cooperate on participation representing Idun
   c. Karl and Akshay likewise will cooperate representing Microsoft
   d. Karl will:
      i. Contact Joakim to gauge his interest in further participation in TC
      ii. Find additional REC/TC members among active participants in repo
2. Meeting recording + English language
   a. **DECISION:** Accepted.
3. API definitions – status?
   a. REST API
   b. Edge API
   c. **DECISION:**
      i. Karl will contact Per to follow up on progress on the Edge API
      ii. Karl will also resume email thread on REST API from August

Open issues

<u>Short term</u>
- [levelNumber for mezzanines? · Issue #153 · RealEstateCore/rec (github.com)](#)
  - **DECISION:** We redefine the textual description of levelNumber to indicate it is relative to the containing space. This allows for nesting of mezzanines within other levels in the cases where that is needed.
- https://github.com/RealEstateCore/rec/discussions/152 – lastKnownValue/value semantics
  - **DECISION:** Semantics on values two levels down from "Point" makes sense, e.g., TemperatureSensor, EnergySensor, etc. However we need to remain compliant with Brick. Karl will continue to liaise with Gabe Fierro.

- https://github.com/RealEstateCore/rec/issues/150 – Generic "owns" relationship instead of Architecture.ownedBy? ~~Also, should we take a principle decision on Collection properties/Relationships?~~
  - **DECISION:**
    - We need to think more about whether to allow open-ended relationships in REC4 or not. This must be resolved before GA. Community feedback requested. Advantages of open-ended relationships: less maintenance. Disadvantages: reduced schema explorability. Discussion to be continued on Gitter and GitHub discussions. Karl will raise the issue.
- https://github.com/RealEstateCore/rec/issues/151 – Substance-on-feeds not being formally correct OWL/SHACL-wise
  - **DECISION:**
    - To be further discussed via email. Karl will provide solution suggestion, based on RDF subproperties.

Longer term

DECISION: Postponed due to lack of time: to follow up per email
- https://github.com/RealEstateCore/rec/issues/36 – Annotations module (i.e., custom properties support for representing arbitrary business data in graph).
- https://github.com/RealEstateCore/rec/issues/13 – Update Lease semantics (additional details re. customer preferences, profiles, etc)
- https://github.com/RealEstateCore/rec/issues/38 – Device configuration (allowable values/configurations, etc)
- https://github.com/RealEstateCore/rec/issues/37 – Actuation/Observation models (since REC3.3, but discussion worth having also about REC4 types)
- https://github.com/RealEstateCore/rec/issues/103 – Update alignments to other models
- https://github.com/RealEstateCore/rec/issues/32 – Streaming API standardization (to do or not, and if do, how to do)
- https://github.com/RealEstateCore/rec/issues/55 – Implement bookings
- https://github.com/RealEstateCore/rec/issues/33 – ESG certification module (needed and if so which point release?)
- https://github.com/RealEstateCore/rec/issues/11 – Energy modeling (processes, metering, etc – needed and if so which point release?)
- ~~https://github.com/RealEstateCore/rec/issues/148 – Bidirectional properties request.~~

Open pull requests

Short term
- https://github.com/RealEstateCore/rec/pull/145 – Georeference
  - Follow-up: using GeoJSON Point for lat/long/alt instead of discrete fields?
  - Follow-up: define a (non-standard) unit for GeoJSON-based geometries, or clarify the use of decimal degree lat/long + meter for altitude in docs?
  - **DECISION:**
    - We will go to GeoJSON as far as possible (based on https://www.rfc-editor.org/rfc/rfc7946)
    - We specify eastings and northings are only in meters in docs.

- - - Documentation will be regenerated to include this.
    - Have geometry expert validate design – who?
      - Peter Hartlev will reach out to Ludvig Emgård, certified surveyor engineer (GIS expert)
- https://github.com/RealEstateCore/procurement/pull/1 – Procurement requirement
  - **DECISION:**
    - Approve NL version
    - Approve updated EN version

<u>Longer term</u>
- **DECISION:** Postponed due to lack of time, to follow up per above or at next meeting.
- https://github.com/RealEstateCore/rec/pull/109 – Edge message schema (REC 3.3)
- https://github.com/RealEstateCore/rec/issues/139 – Electrical equipment complementation. "We (Aug-e) would be eager to contribute our electrical equipment modeling to REC/BRICK. How could we organize this practically?
  To give more insight in our current ontology, I would like to invite you to have a look in this (currently still private) repository: https://github.com/mwdhont-auge/REC-DTDL-AUGE
  It contains some things which might be deprecated, based on the evolvements to be announced from your end soon (SHACL instead of OWL etc.)"