AG 6 Presentation Links

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Existing GOM Practice

GOM Role 1: Semantic assistance

- Loosely defined role to assist the TC with Semantic Web
- Formalisation of review points occurring now

GOM Role 2: auto-built ontologies

Ontologies auto-built from UML, stored online in version control:

- https://github.com/ISO-TC211/GOM/

Issues:

- Not really published - not official, not visual
- Not best practice OWL modelling
- Not used

Proposed

GOM Vocabulary publication

- Current GOM *Register Manager* class
  - https://github.com/ISO-TC211/GOM/blob/master/isotc211_GOM_harmonizedOntology/iso19135/2005/ProceduresForRegistration.rdf#L902
- Australian Government Linked Data WG Registry Roles Vocabulary
  - Unofficial copy of ISO 19135 Roles
  - https://linked.data.gov.au/def/reg-roles
  - Static hosted (HTML & RDF Turtle)
- Geological Survey of Qld Roles Vocabulary
  - Unofficial copy of ISO 19115 Roles
  - http://linked.data.gov.au/def/iso19115-1/RoleCode
  - System hosted (VocPrez)
- GOM Experimental ISO 19135 Roles
  - Unofficial GOM copy
  - https://github.com/ISO-TC211/GOM/blob/master/experimental/iso19135-roles.md
  - Static hosted (Markdown/HTML & RDF Turtle in GitHub)

TC decision: code list test publication

GeoSPARQL involvement

- GeoSPARQL 1.0 - published by OGC in 2012
  - https://www.ogc.org/standards/geosparql
  - Concepts derived from:
    - ISO 19125-1 (Simple features access: functions basis)
    - ISO 19156 (Observations & Measurement: Feature class basis)
    - ISO 19107 (Spatial schema: Geometry class basis)
    - ISO 19109 (General Features Model: ontology structure basis)
- GeoSPARQL 1.1 - in draft, due Q1, 2022
  - https://opengeospatial.github.io/ogc-geosparql/geosparql11/spec.html
  - Compatible with 1.0
  - Multi-part Standard, a few model enhancements, much improved documentation

GeoSPARQL involvement

- GeoSPARQL 1.2 - proposed for late 2022 publication by OGC
    - Still compatible with 1.0
    - ISO compatibility updates, more model built, geometry roles
    - Proposed to be presented to ISO as a nearly complete standard for dual adoption
    - Issues already flagged for GeoSPARQL 1.2:
      https://github.com/opengeospatial/ogc-geosparql/milestone/2

TC decision: ISO involvement in GeoSPARQL 1.2 and co-publication

Testbed 17 outcomes

TB 17

- Engineering Report: http://ogc.pages.ogc.org/T17-D022-Model-Driven-Standards-ER/documents/document.html
- "Semantic"
  - Content
  - publication