

Ontology-based Standards mini-series session-4

The Case for a "Quantities and Units of Measure" Ontology Standard

Session Co-chairs:
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The Ontology-based Standards Initiative and mini-series

- a Joint Initiative of OASIS, OMG, various ISO working groups, IAOA, OOR and ONTOLOG
- a collaborative effort by the co-organizers to drive the Ontology-based Standards agenda among the Standards Development community, the Ontology community and the Systems community
- Inspired by the OntologySummit in 2009: “Toward Ontology-based Standards”
- Mini-series of panel sessions started in Oct-2012
- Today's session is the 4th in the series, and the first of 8 sessions proposed by the community at a brainstorm session on 2013.07.18
- Four sessions (including today's) will be rolled out between now and the end of 2013 (the rest will be scheduled after OntologySummit2014)

Community UoM Ontology Standards Effort

- One of the nine projects that grew out of [OntologySummit2009](#)
- project was incubated by the ONTOLOG community
- a project to coordinate and develop the draft of an OWL and CLIF based ontology international standard for "Units and Measure (UoM) and Quantities" which will be publicly available, free of charge.
- Vigorous online discourse and seven virtual panel sessions were featured
- a thorough survey of the landscape on UoM standardization activities was made, and principals from those projects were engaged
- project now formally retired ... continuing work moved over to an SDO (Standards Development Organization) and conducted under the OASIS QUOMOS TC

see: http://ontolog.cim3.net/cgi-bin/wiki.pl?UoM_Ontology_Standard
& <http://ontolog.cim3.net/cgi-bin/wiki.pl?UoM>

What do we want to achieve today?

- bring the stakeholders together
- share information on key recent developments
- ask potential users of a Q & UoM Ontology Standard whether they really need such a standard, and, if so, what do they need and expect from it
- ... help refine requirements and make the case for a cross-domain, international, freely available, "Quantities and Units of Measure" Ontology Standard

Today's Agenda – Plan A

- Overview
- Presentation: "The NASA QUDT Ontology & Handbook"
- Some User-domain Standards Developers' Perspectives
 - Engineering & Systems Design
 - Smart Grid standardization
 - Financial Industry Business Ontology (FIBO) work
 - Healthcare, Bio-medical, Bio-informatics
- QUOMOS Developer Discussant perspectives
- Open Discussion

Today's Agenda – Plan B

- 1. Session opening (co-chair) - PeterYim & RamSriram* (10 min.)
- 2. Briefing on the NASA-QUDT effort - RalphHodgson with intro by PaulKeller* (30 min.)
- 3. Panelists briefings - SeanBarker, SteveRay, TobyConsidine ... (5 min. each)
- 4. Making the Case for QUOMOS – PatHayes, EdBarkmeyer*
- 5. Contributions from panelists in absentia: MatthewWest, MikeBennett ... and responses - PatHayes, EdBarkmeyer* et al.
- 6. Open discussion - ALL (30 min.)
 - (i) do we need a cross-domain, International QUOMOS standard?
 - (ii) what do/should we expect from QUOMOS?
- 7. Wrap-up - chair: PeterYim & RamSriram* (5 min.)

* availability of these individuals may be affected by the US government shutdown (which started on 2013.10.01) and other factors

Two Questions – for today's discussion

- I. given what (standards works) are already available [1], do we still see the need for a cross-domain, International Quantity and Units of Measure Ontology Standard? (like what the OASIS QUOMOS TC has chartered [3]), and
- II. if so, what could/should that QUOMOS ontology standard deliver, to best meet user needs and expectations?

Resources

A survey of "Units of Measure" standards efforts - <http://ontolog.cim3.net/cgi-bin/wiki.pl?UoM>

Earlier community effort leading to QUOMOS development work -
http://ontolog.cim3.net/cgi-bin/wiki.pl?UoM_Ontology_Standard

OASIS QUOMOS TC Charter - <https://www.oasis-open.org/committees/quomos/charter.php>

OntologySummit2009 - "Toward Ontology-based Standards"

- o [Ontology Summit 2009 Communique](#)

Ontology-based Standards mini-series homepage -

<http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologyBasedStandards>

- o developing program for this miniseries - ref.

<http://ontolog.cim3.net/cgi-bin/wiki.pl?OntologyBasedStandards#nid3YS5>