A standard ontology for Units of Measure – status: 8 Oct 2009

Ed Barkmeyer
NIST

Activities

- Requirements gathering
- Language selection
- Literature search – available models
- Initial draft
- Standards development organization project

Requirements gathering

- Two Web conferences, 7 presentations, many emails
- No written draft of requirements yet
- Responsible party: Ed Barkmeyer
- Draft due: 12 Oct 2009

Project Management

- Committee Chairs: Olken, Price
- Administration: Yim, Bender
- Standards Liaison: Mason
- Editors: Leal, Barkmeyer

Language Selection

- Ontology language:
  - OWL v2 (possibly OWL/Full, i.e. + RDF)
  - parallel axiomatic formulation in CLIF
- Graphical representation
  for presentation and discussion
  - UML (UML Profile for OWL)

Literature Search

- Standard Reference: VIM = International Vocabulary for Measurements
- Available ontologies and resources
  - QUDT (Masters)
  - SWEET (Raskin)
  - UCUM (Schadow)
  - UnitsML
  - SC4/OMG (Leal)

Draft Specification

- Assignments
  - UML concept diagrams (Leal)
  - OWL specification (Masters, Raskin)
  - CLIF formulation (Hayes)
  - Specification text (Barkmeyer)
- Responsible Editor: David Leal
- Next working draft: 23 October

Standards Development Project

- Standards body identified
  - In discussion
- Formal memberships, sponsors identified
  - not started, depends on body
- Project initiation documents developed
  - not started, depends on body
- Responsible team
  - Mason, Yim, Bender, Hayes, Olken, Price