Data Model Working Group

Closing Remarks

Chair: Mark Cresitello-Dittmar
Vice-Chair: Laurent Michel

Summary: DM1

- Common Archive Observation Model (CAOM)
  - Review of development history
  - Significant uptake in the community at various archive centers
  - Interest in seeing how can fit into the greater model landscape

Summary: DM1

- PDS4 Information Model
  - Data model for planetary data archives
  - Based in Open Archival Information System (OASIS)
  - Mature system building and improving over many years
  - Flexible for growth to meet the needs of the community through 'agile' development cycle

Summary: DM1

- Coords, Trans, Meas model status

Summary: DM1

- Transform model assessment
  - Updated assessment of newest draft
    - Resolves earlier comments on Poly2D
    - Some questions.. (to mail list)
    - JSON/YAML serialization to go with individual images (FITBX extension?)
    - VODML based mapping feasible (lite)

Summary: DM1

- VODML serialization
  - Overview of various serialization strategies
    - Representation of an instance in machine readable form. May also be human readable.
    - 'faithful' representation (JSON, YAML, XML)
      - Straight forward syntax
      - Has their own tricky parts (e.g. references)
      - Schema generation aids validation
    - 'non-faithful' (VOTable mapping)
      - Different kind of thing
      - Complexity folds into the syntax.

Summary: DM1

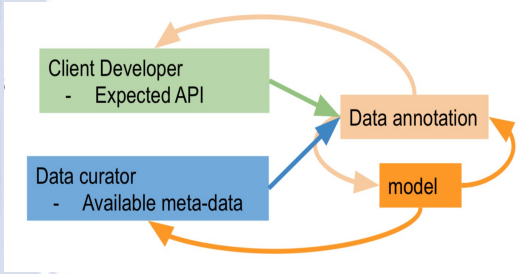
- Simple Spectral Lines – V2.0
  - Convergence of the Virtual Atomic and Molecular Data Center (VAMDC) and IVOA standards
  - vo-dml model delivered (Feb 2019)
  - ready for PR

Summary: Provenance Focus

- Provenance
  - Presentations of current model
    - Status post RFC
    - Use cases
    - Implementations
  - Significant 'offline' discussion on document
  - New working draft to be delivered soon
    - With short review period in working group before returning to PR/RFC

Summary: Source Focus

- Source Catalog/Properties
  - Several short, but informative presentations
    - Science/Project perspective
    - Data provider perspective
    - Client/tool perspective
  - Followed by good discussion
    - Tight iteration with model, client, provider, user
    - Caution about “scope creep”
    - Keep eye on “big picture”
  - Need cases, user stories, priorities from CSP!



Roadmap Highlights

- Coords, Meas, Trans
  - Complete example sets and implementations
  - Formal mapping of models to AstroPy objects
  - Migrate into PR/RFC (end Summer 2019)
  - Work with TDIG, others? on usage thereof in context of Cube (end-to-end cases)

Roadmap Highlights

- Provenance
  - Update working draft and vo-dml products (May 2019)
  - Working group review (4wks)
  - PR/RFC (2 + 4 wks)
  - Goal: REC by end of Aug 2019

Roadmap Highlights

- Simple Spectral Lines v2.0
  - Look for PR announcement very soon.

- PhotDM-1.1
  - Port to vo-dml compliant version
  - Minor version update if possible

Roadmap Highlights

- CAOM
  - Work to assess its place in the model framework
- Source Catalog/Properties
  - Joint project involving multiple groups
  - Continue gathering use cases
  - Work with CSP on priorities/stories