Data Model Working Group

Opening Plenary

Mark Cresitello-Dittmar/Mathieu Servillat   **June 1, 2025.**   **College Park, MD**

Current Roadmap

Priority projects

- **MANGO 1.0**: Model for ANnotating Generic Objects
  - DM group comments on Working Draft to Git issues
  - Resolve comments - update working draft and implementations
  - Move forward to RFC process.

- **CAOM 2.5** Integration
  - Documentation updates (LaTeX representation) - February
  - Hold focus meeting on integration plan - February
  - Review/resolve issues from working group review
  - Working on python implementation (at CADC)

- **ObsCore**/RadioExtension reconciliation
  - Port ObsCore -1.1 document to ivoatex
  - Schedule focus meeting with interest groups (DM, RadIG, TDIG, HEIG)
  - Submit proposal of <attributes> to move into ObsCore proper
  - Continued discussion - how to discover services that include <domain> extension content
  - Open working draft for ObsCore -1.2 and update RadioExtension -1.0

- **VO-DML 1.1**: Updates to facilitate database and code generation threads
  - Deliver list of update candidates to DM mailing list for review
  - Create working draft document
  - Review internally, and move through RFC process

Semester Activities

Highlights

- **DM Running Meetings**
  - Held regular meetings discussing project status and broader DM long-term planning
    - https://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaDMRunningMeetings

- **MANGO 1.0**:
  - Significant work on resolving Git issues, and updating WD/Implementations accordingly

- **CAOM 2.5** Integration
  - Conducted focus meetings, resolving several open questions.
    - https://wiki.ivoa.net/twiki/bin/view/IVOA/CaomIntegration
  - Implementation work ongoing / tied into ObsCore Extension project as well

- **ObsCore**/RadioExtension reconciliation
  - Heavy engagement in ObsCore extension work
    - Work from interest groups to update / refactor their Notes per request
    - HEIG hosted Inter-group Workshop in Paris (April) discussing all aspects of the proposed extensions
      - Really helped bring the more common extension properties into focus
  - Ongoing work porting ObsCore v1.1 document to ivoatex

DM Sessions

DM1 - General session

Tuesday June 3 @11:00 EDT: Room 2309			
Speaker	**Time**	**Title**	**Material**
Laurent Michel	15' + 3'	Mango last step After being delayed due to the MIVOT recommendation process, the MANGO data model is now a VO working draft. The purpose of MANGO, which stands for MO-del for AN-notating G-eneric O-objects, is to add an upper level of description to the tabular data of query responses. It allows metadata to be extended, complex quantities to be reconstructed from multiple column values and properties to be linked together. It also allows to specify the origin of the data. I'll give an overview of the model and the tools available to exercise it. This talk is an invitation for people to contribute to the REC process.	
Pat Dowler	15' + 3'	CAOM-2.5 This is a status update on the WD-CAOM-2.5 standard document itself and some feedback on some VO-DML related issues. We will also provide some details on the status of updating OpenCADC implementations of the model and services to the draft version. Note: The version in the IVOA doc repo may be be out-of-date - check the preview at https://github.com/opencadc/CAOM	
		AOB: Spectrum RFEs, VODML-1.1 candidates	

DM Sessions
ObsCore Extensions

Wednesday June 4 @ 14:00 EDT: Room 2309			
Speaker	**Time**	**Title**	**Material**
Mark Cresitello-Dittmar	15'	Introductory summary of the project and current state	
Pat Dowler	15'	Data Model - Assessment, recommendations, questions	
Gregory Mantelet	10'	Data Access Layer - Assessment, recommendations, questions	
Renaud Savalle	10'	Registry - Assessment, recommendations, questions	
?	10'	Semantics - Assessment, recommendations, questions	
		Open Discussion - roadmap planning	

DM Sessions

DM: Modularity, Levels, Endorsement

TCG oriented

Thursday June 5 @ 16:00 EDT: Room 2309			
Speaker	**Time**	**Title**	**Material**
Mark Cresitello-Dittmar	15'	Setting the stage - What is the end goal of the IVOA? - Atomic building block models, or independent? - Serving different clients at their level - Ramifications on TCG and D&S process	
		Open Discussion	

Goals for this Interop

- ObsCore Extensions

  - Define a roadmap for integration of proposals into Standards

- MANGO

  - Demonstrate readiness for RFC

- Special Session

  - Identify Architecture improvements at DM interfaces to improve consistency and streamline the development process

  - Consider possible effects on Standards Review process