

Plenary conclusions

Data Model WG Status report

Monday Nov 12

Observation Core Components DM

- Agreed to use components of the Observation Model + TAP/QL
- Re-use Char DM v2.0 (only partly)
- Re-use Spectrum DM (only partly)
- Define a list of items to be exposed in a TAP/ SCHEMA OBS/TAP :
 - Utypes and **shortname**
 - Units
 - Type
 - Description
- WD currently written ; to iterate and deliver by end of December
- Implementation to start concurrently

Data models serialisation : Utypes

Please comment the draft circulated

Utype: A data model name convention Version 0.4

- Canonical and **alternative** notation
- **Unique Field Identifier** for data base queries not covered
 - 2 possible strategies:
 - Add a section in the Utype document for ADQL queries and extend the syntax
 - Write a specific document for UFI deriving from Utypes but providing a more flexible syntax
- Utype-derived URI to point to data model documentation N. Gray
- Register all Utypes definition at IVOA level
- Implementation required for Utypes

Datamodels building blocs : Units

- IVOA WD to update
- Definition of BNF grammars to parse units strings (Sébastien Derrière, Jeff Lusted, F. Ochsenbein)
 - G1 to check the largest set of admitted units
 - G2 parsing a more restrictive set considered as **IVOA recommended Unit strings**
- Tests on existing data collections to perform (Heasarc, Vizier, ESAC archive, XMM , MERLIN, others...)
Theory data collections?

Observation Data Model

• Provenance

- Sketch out of ESO various instruments
- Description for the Radio data case
- DM group to produce a **simple summary** of the instrument provenance

• Footprint / Field of view

- Both based on the UML version of Observation
- More homogeneous → Stabilise the XML schema and Utype-list

• Complex observations

- Polarisation data
- Mosaics, associations, derived products
 - List use-cases and prototype in UML/ XML

Modeling Photometry

Photometry

- Good progress for a basic data model (ESAC, SVO)

SED

- Prototype model with FITS (CFA)

Need convergence

Need documentation for the various model fields

Science uses-cases to describe and implement with this photometry model.

SIMDB DM

- Hand-over from the **Theory Interest group**
- What is needed for the DM WG to endorse the model:
 - WD describing the model structure
 - UML representation
 - XML Schema
 - 2 reference implementations + their submodel description
 - SimDB with DB access
 - Micro-simulation at VO-PARIS
- More has been produced :
- Utypes list with uri reference to corresponding documentation
→ to be re-used for other modeling efforts (ObsDM)