

DM Working Group Closing Remarks

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Agenda

- **DM1** (Tuesday Nov 17, 15:00-16:00 UTC)
 - **ObsLocTAP** status report (Jesus Salgado)
 - **Meas, Coords, Transform** Model Status report (Mark Cresitello-Dittmar)
 - **MANGO** a Model for Source Data (Laurent Michel)
- **DM2** (Wednesday Nov 18, 6:00-7:00 UTC)
 - **Provenance** activities in the European project ESCAPE (Matthieu Servillat)
 - **ProvTAP** evolution after first community feedback (François Bonnarel)
 - Extending **ObsCore** for Time Data (announcement by Mireille Louys)
 - Data Model posture review (Markus Demleitner)
- **Cross Domain Sessions**
 - **DAL1** (Tuesday Nov 17 2020 @ 13:30 UTC)
 - **ObjVisTap** status & discussion (Aitor Ibarra)
 - **DAL2** (Wednesday Nov 18 2020 @ 22:00 UTC)
 - Implementation of the IVOA **Spectral Data Model** at IPAC (Vandana Desai)
 - Need to improve spectral data serialization to be included in DM roadmap (Spectral DM? Cube DM?)
 - Enriched Query-Server Response: DataLinks and Column Groups (Judith Silverman)
 - **Education/Apps/DAL/DM** (Thursday Nov 19 2020 @ 20:30 UTC)
 - Protocols for handling file-oriented catalog data (Gregory Dubois-Felsmann)

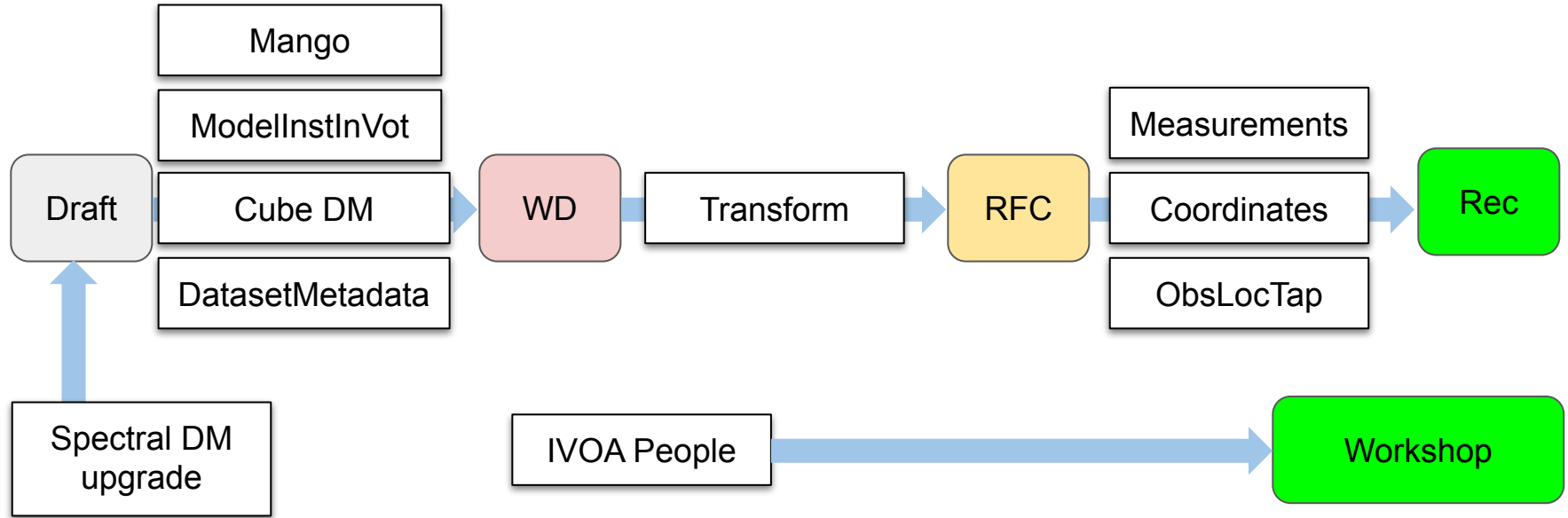
Sessions

- **Provenance in ESCAPE European Project**
 - Model description
 - **Provenance** is connected with the FAIR principles
 - Creation of a working group to define the minimum provenance is being created
- **Provenance in TAP: ProvTAP**
 - The evolution due to community feedback is presented
 - Example shown on **ProvHiPS** where the configuration files are discovered
 - Need to simplify the relational mapping of facilitate the query setup (less joins is the better)
 - Denormalization, usage of views ...
 - Approach proposed is to keep full **ProvTAP** schema and propose views
- **ObsLocTAP (Observation Locator Protocol)** (RFC: Deadline 2020/11/27)
 - Definition of metadata related to observations planning and schedule
 - Implementations: Chandra, XMM and Integral
 - Existing tools to help to community to implement the protocol
 - Recommendation of IAU endorsement — IAU General Assembly August 2021
- **ObsCore Extension for Timeseries**
 - Define a table (ivoa.t_obs) to expose time series related fields which can be joined to the main **ObsCore** table.
 - Add an extra capability to discover the feature is this a DAL action?
 - Discussion topics e.g defining the time series type, joining obscore with time extension....
 - RoadMap to the next interop: Draft a note to expose the elements.

Meas, Coord, Transform, Mango and Related Issues

- **Meas Coord and Transform** (Meas and Coord in RFC: Deadline 2020/12/07)
 - **Measurements, Coordinates:**
 - Formal comparison with Astropy objects, exercised with Mango, coord exercises with Transf
 - **Transform** (last update 2020/08):
 - No big change in the model but renaming things + scope refined
 - Implementation with AST and gWCS: Fits -> ADSF exports
- **Model for Source Data**
 - Flexible model for annotate catalog data
 - Model (**MANGO**)+ VOTable annotations (**ModelInstanceInVot**) accessible on GitHub
 - End to end workflow from annotation building to a generic client
 - Exercised with Chandra, XMM, a few Vizier catalogues and a Gaia sample.
- **Discussion on DM Design and Usage**
 - Discussion initiated by Markus
 - Lots of contributions
 - A majority trend to simplify the models and their usages
 - The ball is in WG court,
 - Arranging a Workshop (survey + data challenge)?
 - Preserving the work done
 - Mail on a list coming soon.

WG Roadmap



Good Interop in spite of the outbreak!