

Data Model Working Group

Closing Remarks

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Summary: DM1

- STC2

- General status of documentation

- translating vo-dml → ivoatex
 - feedback on using ivoatex

- Q: serialization into YAML

- Would like a sanctioned approach

- Q: relation to STC-S

- Will mechanism be needed for STC-S strings to refer to the new model(s)?



Summary: DM1

- Transform model compatibility study
 - Focus on non-linear distortion
 - Conclusions
 - Radial distortion to be considered?
 - Extension of Polynomial transform needed
 - $2D \rightarrow 2D$ or $3D \rightarrow 2D$
 - “Apart from that, STC transform provides a unified representaton for building transformatons by combinaton of simple operatons in any order : Yes !”



Summary: DM1

- Simple Spectral Lines – V2.0
 - Presented by proxy
 - Discussion about WG path to evaluate and migrate the model for both SLAP and possibly other usage
 - Identify primary development roles
 - Modeler: Nicolas Moreau?
 - Domain: DAL WG?



Summary: DM1

- Mapping: What is mapping supposed to do?
 - Reviewed the reason why we need it
 - Demo of mapping examples, and the level of inherent complexity
 - Some from nature of what mapping is doing
 - Some from the model being mapped
 - Reminder that we need to keep both in mind when reviewing models.



Summary: DM2

- Provenance

- Presentations of current model
 - Approach to date
 - Use cases
 - Implementations
- Presentation of points of contention and the limitations they produce
 - Good discussion to clarify the view-points, and hone in on the core factors
 - More discussion during ADASS



Roadmap Highlights

- Open Errata:
 - STC
 - Sign error in formula, section 4.5.1.4
 - Sign error for area if $A < 0$
 - ObsCore
 - UCD error using meta.curation



Roadmap Highlights

- Simple Spectral Lines v2.0
 - Twiki page (requirements, use cases)
 - Build on framework from 1.0?
 - WG to discuss
 - Review of new model content
 - How much to integrate into existing models
 - Generate vo-dml compliant model
 - Usefulness outside SLAP (source model?)
 - If so, consider model evolution
 - Focus on SLAP needs/timetable
 - With consideration of big picture



Roadmap Highlights

- **STC component models**
 - Coords: WD delivery by end of Nov
 - Meas: WD delivery in Dec
 - Trans: WD delivery by end of Dec
 - Continue critical evaluation of content
 - compatibility with common packages
 - (AST transforms, AstroPY coords/frames)



Roadmap Highlights

- PhotDM, Char port to vo-dml
 - Key players agreed to work together to make progress on these.
 - PhotDM: smaller effort will complete first
 - CharDM: larger effort, requires refactoring, will work in tandem, but will complete later.



Roadmap Highlights

- Provenance

- Continue discussion during ADASS
 - Resolve contention points
 - Confirm scope of V1.0
- Complete RFC period to gather all feedback
 - Determine next steps based on above

- Mapping Syntax

- We have a defined and implemented syntax, cannot design simplifications without concrete feedback from alternate/external implementations.



See you in the Spring!

Nov 10, 2018

IVOA Interop – College Park

