

DM/Apps Session

Introduction

Chair: Mark Cresitello-Dittmar

Vice-Chair: Laurent Michel

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IVOA Interop – Santiago



Background

- VO-DML/Mapping

- Defines syntax for annotating vo-dml compliant data model elements in VOTable serializations.

- History

- Originally done using utypes
 - Flattened nature produce problems for complex models.
- Tiger team established to resolve (2012-13)
- Initial syntax developed (2014-15)
 - Incorporated into VOTable elements



Background

- History

- Jun 2016: face to face mtg - Baltimore
 - Work details of spec and implementations
- Oct 2016: implementation review deemed syntax too cumbersome and tightly bound to VOTable.
 - Decision to pursue proposed alternate syntax
 - extend VOTable schema with simpler mapping
 - May 2017 topic: via import or embed?
 - isolate model annotation to <VODML> node
 - Explicit mapping to vodml concepts



Background

- History

- Jan 2017: face to face mtg – Baltimore
 - Detail alternate mapping proposal
- Monthly telecons
 - Coordinate development of spec and implementations
- Currently being exercised with several models
 - Cover server and client side
 - Focus on sharing data product(s)



Format

- Few short presentations on current work related to Mapping.
- Guided discussion time to resolve remaining concerns
 - Relatively short discussion time, so will try to keep focus on specific items.



<Presentations>

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Resources

- IVOA Twiki

<http://wiki.ivoa.net/twiki/bin/view/IVOA/VODML-Mapping>

- Model development examples
 - STC2, Cube, TimeSeries, Tessellation
- STC2 'shortcut' element testing
- Mapping Syntax Element diagram



Topics

- Packaging: (10 min)
 - a) embed in VOTable proper
 - b) import as separate schema
- Factors to consider
 - Impact on VOTable users (server, client)
 - Multiple documents
 - Timetable for generating VOTable update
 - Scope creep
 - Vulnerability of changes to either part
 - Prevalence of VOTable use without Mapping



Topics

- # of new elements in annotation (15 min)
 - Adds effort for 'average' user
 - Guru user can go to model spec for details
 - Maps 1:1 with vo-dml spec, handles all cases
 - Factors to consider
 - 2+ user levels (naïve → guru)
 - Broad use-case range (simple → ORM)
 - Options:
 - Split content (see Packaging)
 - Divide specification (Common, Guru)
 - Consolidate element set .. which?

