

Moscow Interop

Data Models: Plenary-2

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Roadmap

- Spectrum, Char, STC, Spectral Line
 - all close to ready
 - IVOA WD by Oct 2006 (ADASS)
 - IVOA PR to be submitted by Dec 2006
- Spectral Associations (SED etc) 2007
- Source Model 2007
- Component models
- Observation

Spectrum

- Changes that need to be made:
 - Method to identify serialization type (MIME?)
 - MUST/SHOULD/MAY (now only have MUST/MAY)
 - Do we have consensus on allowed units?
 - Some cleanup and clarification for FITS serialization
 - Minor technical details based on feedback
- Suggestions in session:
 - XML elements to be nillable
 - Discussion on identifying serialization type: problem for DAL and GWS, DM will follow
 - Distinguish “Not applicable” and “Unknown”
 - Allow any spatial coordinate system
 - VOTABLE group approach: F Bonnarel to suggest alternate way

STC

- JCM's abstract DM document generally well received.
- Arnold presented the latest changes as requested by CDS (transforms) and others
- Request to clarify that redshift axis is also a Doppler axis – improve documentation
- Request for more examples and for annotation of examples
- No major design issues raised – press on with documents!
- Concern over implementations: how will we provide libraries, what is status of D. Berry AST code
- Partial implementations in JHU footprint service, VOEvent, Registry

Characterization

- Igor gave a nice demo using the Char DM to filter and retrieve from a Postgres observation database
- Several implementations in work, plus reuse in SSA
- A. Rots suggested need for improved cross-referencing IDs in child elements
- D. Tody argues for “N/A” (not applicable, e.g. RA and Dec for theory simulation) and “UNKNOWN” as being different things. Not clear how to implement this.
- Disagreement about whether all of Space, Time, Spectral axes should be mandatory

General

- Norman presented a nice scheme for extensibility of data models using user-defined utypes, which would allow non-schema-based serializations to use extensions interoperably
- Discussions with Inaki on using utypes in practice raised some issues to review – will propose solutions on mail list
- Remember to upload presentations to InterOpSep2006DM on the twiki