

NDCubeDM status

Mark Cresitello-Dittmar, SAO



Refactoring

ImageDM → DatasetMetadata/NDCube

- Refactoring occurred prior to Banff
- Same content and scope

DatasetMetadata

- Extremely generic, reusable model
 - Spectral, NDCube, ObsCore, any other Dataset
- Helps distinguish between Dataset and DataProduct
- Includes prototype STC2
 - To support NDCube development in parallel

NDCube

- Focus on cube specific content
- Same scope as original ImageDM draft

Progress

Distributions:

- Updated and distributed; volute and dm list [Mar. 2015]
- Uploaded to IVOA standards page [May 2015]

DatasetMetadata

- Spectral 2.0 feedback related to Dataset elements
 - Clarification of various dataset IDs; versions
- Updated STC2 prototype to state at that time (approx)
- Format updates

NDCube

Updated interfaces to STC2 prototype elements

Discussion Topics

Known items where input is requested:

- ObsDataset:Derived
 - Currently spectral specific content, need generic substitute
- Dataset Ids
 - good/correct examples
- Contact object
 - Should content of this element be extended to other content described in Resource Metadata? (mail address, phone#)
- STC2
 - Keep in sync with ongoing development

Prototype - STC2

Very closely aligned... deltas

- Coordinates: dimensionality collapsed using QuantityVector
 - (Position1D, 2D, 3D => Position)
- Transform: approx. same content, different structure
- Relation of CoordFrames and Transforms
 - More discussion needed
 - SIAV2 use case support
 - Handling of non-pixel frame transforms

Going forward

Next steps

- Working group comments on Dataset/NDCube content
 - Address questions, help with examples, any other business
- Update with STC2 developments
- VO-DML compliance review/ model description
- Reference Implementations!
 - What does this entail? (Dataset)
 - VO-DML/UType serialization strategies
 - CALL FOR VOLUNTEERS

Plan

- Migrate Dataset, NDCube, STC2 forward as a unit
 - Final revision of Dataset would NOT include STC2 prototype