

Observation Data Model

Views for IVOA Rec:

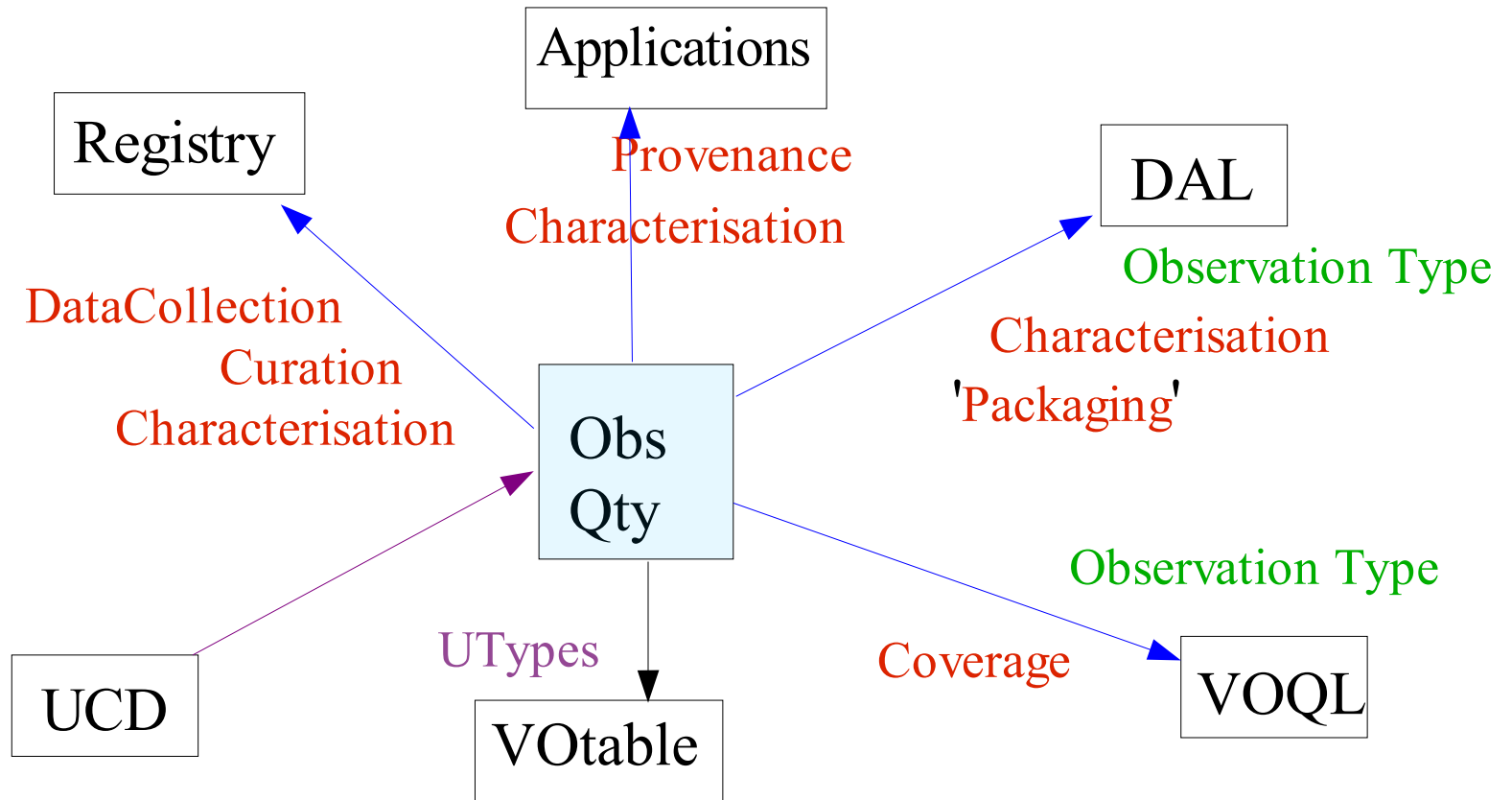
UML diagrams

WG interactions

UML diagrams

- Last version of diagrams for Observation Working draft
 - <http://alinda.u-strasbg.fr/IDHA/dmobs>

Links with other WG group efforts (1)



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? How does the Observation data model interact with:

Registry

- Characterisation summary
- Identification of data collection and small sets of published data

Data Access layer

- SIAP: only a subset of attributes available as Utypes or « DM_hyperlink »

Registry

- - Coverage.Spectral()
 - Spectral.Maxwavelenght
 - Spectral.Minwavelenght
 - Spectral.BandPass
- Coverage.Spatial()
- Coverage.RegionOfRegard
- Resolution
- Coverage.Depth

DM Observation

Characterisation

Coverage.Support

Coverage.Support(spectral)

Coverage.Support(spatial)

Resolution

Sensitivity

DAL

■ Required parameters

- Pos
- Size
- format

■ Optional parameters

- Time
- Bandpass
- Collection



VOQL

-
- Skypoint
- SkyROI
- SpectrumROI
-
- Image Pointer
- SpectrumPointer

Observation

Characterisation

Coverage.Location(spatial)

Coverage.Support(spatial)

Coverage.Supp(or)spectral)

LinktoData

How many DM do we need?

- There are many things to be modeled
 - Different regimes need different metadata
 - Various levels of details: coarse to fine
 - Domain, regime, scientific goal
(theory/simulation vs observation)
- **Derive** models instead of duplicate

How to write names in the DM ?

- Within the model description:
 - Naming convention to define classes, methods, attributes.
- Outside the model
 - U-types (DM-hyperlinks) should not allow to reintroduce namespaces and scatter DM efforts.
 - They should not be used in place of a controlled vocabulary.???
 - Too many steps in translation
 - No warranty for a one to one match.

IVOA Rec submission

- What else do we need in DM OBS metadata?
 - At the access format layer:
 - List the deliverables: (ex: HST associations)
 - Pointers to data files
 - Format of deliverable files: fits, jpeg, etc...
 - Versioning
 - History
 - Quality
 - Packaging ??