Data Access Layer

- closing plenary – Urbana 2012
  - Patrick Dowler (chair)
  - Mike Fitzpatrick (vice chair)

Footprints

- footprint: outline in spatial coordinates
- client tools need a common way to identfy and parse footprints in query response
    - consistent with ObsTAP
    - common DAL service requirement → DALI
- agreed that STC-S serialization must become a standard

DataLink

- DataLink is a way to find *related resources* via a web service
  - input: publisherDID
  - output: VOtable with 1+ links
  - links: <id,semantics-of-relation,URI,...>
- undecided: how caller finds and uses a DataLink service
- drivers: making ObsTAP even more useful, SimDAL, …

Theory-DAL-Registry

- SimTAP is a web service that combines
    - TAP (+VOSI) w/ Protocol(s) and pivoted instances
    - DataLink
    - AccessData – self-describing operations
- SimDB: between Registry and SimDAL
    - TAP service with dataModel=SimDM
    - specify the relational model for SimDM (maybe subset)
- Registry: looks like no RegExt needed

AccessData

- AccessData is a classic DAL service operation

  - cutouts, rebinning, reprojection, …

  - must be user controllable

  - must be self-describing

- queryData operation in DAL services provide these AccessData URLs

- service links in DataLink output could directly provide these AccessData URLs

- what / where to secify this? undecided

DataLink vs AccessData

- DataLink is about *related resources* for a dataset

- AccessData is about operations on a dataset

DALI

- issues in WD-DALI-1.0 resolved
    - upload: allowed table names more restrictive than by ADQL
    - qualifiers: removed from DALI
    - multiple values: multiple param=value pairs
- add /examples resource (optional)
- add section on consistent use of STC-S footprints
- add advice about putting citation info in query responses (VOTable)

SIAv2

- despite not having any dedicated sessions, *SIAv2* made a few appearances
  - CSP: radio data... cubes...
  - ...
  - ...
  - ...
  - SIAv2

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  - CSP: radio data... cubes...

  - what do astronomers need to do → use cases

  - data model

  - ...

  - SIAv2 → is a solution

Roadmap

- DALI : no dependencies
    - final WD: June 2012
    - PR: summer 2012
    - REC: fall 2012
- DataLink : no dependencies
    - next WD: summer 2012
    - prototypes: summer/fall 2012
- AccessData: undecided
- STS-S: need to identify authors

Roadmap

- SimDAL: needs DALI, DataLink

    - WD: fall 2012

    - prototypes: fall 2012

    - PR: ?

- SimDB: needs DALI

    - WD: ?

    - prototypes: ?

    - PR: ?

Roadmap

- SIAv2: needs DALI, DataLink, ImageDM, PQL

- ImageDM: DM-WG

- So.... PQL?

DAL Roadmap Summary

- soon:
    - DALI, DataLink
- clear to proceed:
    - SimDAL, SimDB
- uncertain:
    - PQL
- later:
    - SIAv2, ...