



# Data Access Layer Working Group

## Closing

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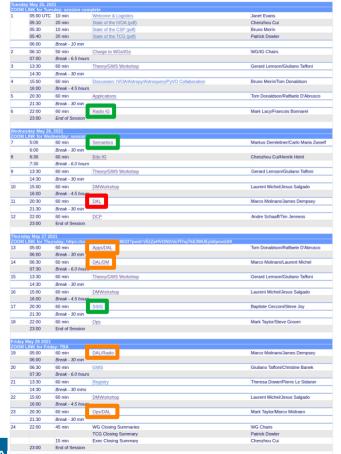






#### The Schedule





- 1 DAL specific session
- 4 joint sessions
  - Applications
  - Data Model
  - Radio
  - Operations



- ...but hints coming also from other sessions
  - Radio, Semantics, Solar System

## "formal" DAL & Joint sessions



RESULTS

**ANSWERS** 

SOLUTIONS OUTCOMES

- DataLink
  - XSLT&JS + Semantics: VOTable styling in browsers
- ADQL-2.1: wrap up & move to RFC
- Time Series discovery & access (Note update)
  - source driven discovery, obscore needs, SIAv2 integration, building from ConeSearch/TAP query (TIMESYS, TIME in ConeSearch), STMOC
- SIAv2 update
  - ported to GitHub, tracking issues there now. Models for archive vs. virtual access when using SODA/DataLink (for cutout)
  - vocabularies for FACILITY, INSTRUMENT?
  - extending dataproduct type -> general simple dataset access protocol
    - how to handle extensions w.r.t. base image/cube access
- Usage of DAL protocols in workflows/portals/data aggregation
  - not only SIA and TAP, also first ideas of using ObsLocTAP, ObjVisSAP
- Provenance access
  - "last step" provenance and use in ProvTAP/ProvSAP
- SSA implementations & update requirements
  - output formats, custom models integrated with obscore, other-than VOTable outputs, STMOC querying, spectral order and upper/lower limits on SED, move units to VOUnits





#### "formal" DAL & Joint sessions



- ObsLocTap quickly moving to REC
- Obscore extension for radio interferometry
  - add a table/add fields, frequency w.r.t. wavelength & UDF
- Time & Frequency data products
  - Time Spectra MOC, time frequency geometry solution with JSON representation in TAP (xtype?)
- Radio astronomy data providing
  - asking for more DataLink and SODA, integrating catalogues of single dish spectra, SIAv2 usage in managing cubes (or CAOM?), providing metadata via DataLink
- Provenance approach for the SKA Science Data processor
- Ops/DAL service compliance issues discussion

details available on wiki

https://wiki.ivoa.net/twiki/bin/view/IVOA/InterOpMay2021DAL







## Cherry picking & other sessions



- EPN-TAP on its way to become REC
  - more and more used
- dataproduct\_type vocabulary
  - extensions, mapping needs, usage in protocols
- Radio astronomy products integration
  - uv(w) plane in querying/preview, raw/science data multiplicity (2-step or, difficult, obscore dataproduct choices)
- MOC-driven query (space, time, energy)
- SSA needs a revision
  - light revision
  - "Simple Dataset Access" integrated?
    - (SIA has enough feedback for revision anyway)
- Time Series & events handling
  - search them, use them, describe them...







#### **Keep in touch with DAL**



mailing list: http://mail.ivoa.net/mailman/listinfo/dal → subscribe! dal@ivoa.net

wiki: https://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaDAL

github: https://github.com/ivoa-std/{DOCNAME}

slack: https://join.slack.com/t/ivoa/shared\_invite/zt-r22e0ir4-KMOQXzAMmKzcUXWOjrJSZQ (#dal channel)

monthly running meetings: https://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaDAL\_RunningMeetings

contact DAL coordination















#### Thanks!



#### 7 years might not be enough for a good Scotch Whisky

#### ... but surely are for DAL coordination!

#### Thanks to:

- François
- James
- DAL editors, authors, members
- all IVOA interop community!





