



Data Access Layer Working Group

Closing

James Dempsey & Grégory Mantelet
29 Apr 2022



IVOA Northern Spring 2022 Interoperability Meeting
26-29 April 2022

DAL 1 Session



VLKB VO plans to multi-cutout

- Input an array of parameters for each cutout
- Avoid cross-join of parameters between different cutouts
- Produces a packaged job result with status for each cutout

SIA2/SODA upgrades and Extending SIA2 into a generic DataSetSAP

- One shot cutout from SIA2
- Expand to spectra (replace SSA)
- Looking at how to expand to measurement sets and catalogs

Updated heliophysics services in VESPA

- Rich system for accessing heliophysics data including EPN-TAP support



DAL 2 Session (1)



LineTAP

- TAP schema for reference spectral lines built on the VAMDC data model
- Working draft of note ~June 2022
- Call for use cases

ProvHIPS implementation of ProvTAP

- ProvTAP internal draft
- Traces provenance of HST HiPS and HiPS tiles
- Database views focused on specific questions for simplicity of access
- Need for more ProvTAP implementation

DAL 2 Session (2)



EPN-TAP progress and status

- All comments in RFC responded to
- Wide adoption with most implementations up to date with latest EPN-TAP version
- Work on open issues such as use of MOC/ST-MOC, extensions and vocabularies

An ADQL astrometric library

- ADQL UDF to apply proper motion to a sky position
- ADQL UDF to transform between frames
- PGSphere enhancement for epoch propagation
- Need for a 2nd implementation for the UDF transforming frames



Potential Follow-up



Too little time for discussion!

Splinter on SIA2 expansion to Dataset SAP

Potential future running meetings:

- LineTAP
- Dataset SAP
- TAP 1.2 and persistent uploads



Follow & Connect to DAL



Connect to 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: [#dal channel](https://join.slack.com/t/ivoa/shared_invite/zt-r22e0ir4-KMOQXzAMmKzcUXWOjrJSZQ)
- running meetings: https://wiki.ivoa.net/twiki/bin/view/IVOA/IvoaDAL_RunningMeetings

Contact the DAL coordination:

- James → james.dempsey@csiro.au
- Grégory → gmantelet@astro.unistra.fr

Thanks!

