

IVOA Interoperability Meeting College Park – June 2025

DAL WG

Data Access Layer Working Group

Chair: Grégory Mantelet

Vice-Chair: Joshua Fraustro





Highlights in DAL 1

TAP, DataLink

Spoke3 Archive Infrastructure Massimo Costantini

- Provides TAP and DataLink
- 2 storage solutions (Postgres and S3)
- Cut and merge operations

DALI

WD-DALI 1.2 update Pat Dowler

- ~10 new xtypes
 (e.g. MOC and (multi)shape)
- OpenAPI addition
- Params in upper/lower case
- DALI-1.2 ~ ready for RFC

ADQL

ADQL PEG grammar and validation

Grégory Mantelet

- PEG grammar conversion for a set of parsers
- Validator works on all of them
- Validator almost ready
- Grammar still being rewritten

ADQL-next discussions All

- Strong suggestion to improve the optional status of some features
- MOC first, *MOCs later
- Array more and more needed;
 will be optional



Highlights in DAL 2 - TAP

Accessing Solar System observations from ESO Stéphane Erard

- epn_core table for Solar
 System objects to complement
 ObsCore
- Hard to identify Solar System targets

Evolution of TAP toward a more stateless architecture Jose Osinde Lopez

- TAP is not stateless- a real challenge for distributed systems
- How to manage TAP across multiple instances?

A management interface for persistent TAP uploads

Markus Demleitner

- A method for deferring user table destruction time
- User-created indexes on persistent tables
- Both through a UWS-like interface

TAP-1.2 - OpenAPI and user-tables

Pat Dowler

- OpenAPI work: VOSI, UWS, TAP
- Table endpoint augmented for user table management
- Open issues about indexes, permissions and OpenAPI strict level



Well-received messages

from other sessions

DAL (CSP)

Anastasia Laity

SPHEREX plans to use SIA/SSA, DataLink, ObsTAP

DAL (CSP)

Anastasia Laity

SPHEREX may need arrays in ADQL (for spectra)

SCS (Major Version Transitioning) Markus Demleitner

Let's test with SCS2! Who's in?

TAPRegExt (DM)

Markus Demleitner

«DataModel in TAPRegExt was a terrible mistake.»

TAP (DSP)

Mark Taylor

A stable method for authenticating w/TAP services in use and WD: IAP

DAL stds (Ops)

Henrik Norman

Suggestions:

- · SCS 1 ID column
- . 5C5 1.x → 2.0
- · SIA1 -> SIA2
- TAP test your implementations



Let's get connected!



DAL mailing list

Grégory Mantelet (chair) Joshua Fraustro (v-chair)



Twiki IvoaDAL



DAL Channel



IVOA documents