



**IVOA Interoperability Meeting**  
*Malta - November 2024*

**DAL WG**

*Data Access Layer Working Group*

Chair: Grégory Mantelet

Vice-Chair: Joshua Fraustro



**STScI** | SPACE TELESCOPE  
SCIENCE INSTITUTE

# Highlights in DAL session

## ObsTAP + Datalink

### [DAL at IRSA](#)

Anastasia Laity

- The nature of the data (simulated or real) MUST be visible and explicit in datasets
- CAOM -> ObsCore
- How to enforce ObsCore consistency across archives?

### [How to get a data from different locations](#)

Tess Jaffe

- 3 propositions using Datalink
  - 1 service descriptor each
  - suffixed #this content\_type
  - [FB] use local\_semantics
- TBD - DAL running meeting

## TAP-1.2 - Persistent upload

### [A Prototype in DaCHS](#)

Markus Demleitner

- No authentication
- /user-tables endpoint
- PUT, POST, GET, DELETE
- New in ADQL:  
CREATE TABLE

### [User-managed tables in TAP](#)

Pat Dowler

- Authentication required
- /tables endpoint
- PUT, POST, GET, DELETE
- Permission, sharing, index
- P3T/OpenAPI - How to make HTTP methods or endpoints optional?

### [Upload capabilities available in TAP+ services at ESA archives](#)

Jose Osinde Lopez

- Authentication required
- /uploads endpoint
- Storage in VOSpace
- Sharing capabilities

### Wrap-up:

- Draft to clarify
- Need more discussions
- It will be an optional feature
- Experiment with OpenAPI

# Well-received messages - 1

from other sessions

**ADQL (in Apps)**  
Markus Demleitner

*“Optional features are bad for UX. Please avoid them!”*

**DAL stds (in Apps)**  
Markus Demleitner

*“Don’t standardize case insensitive parameters!”*

**SIAv2 (in Apps)**  
Trey Roby

*“Remember to support MAXREC=0.”  
It will be used intensively by Firefly.*

**DALI-1.2 (in Apps)**  
Mark Taylor

*Suggestion to add Parquet in RESPONSEFORMAT values.  
application/vnd.apache.parquet  
(alias: parquet)*

*Much interest into ObsLocTAP along with **ObjObsSAP** and ObsCore in several talks.*

**LineTAP**  
Jean Michel Glorian

*Working on a client (CASSIS) and server implementation.*

# Well-received messages - 2

from other sessions

**SIAv1 (in Ops)**  
Henrik Norman

Remember: *MUST* have  
<RESOURCE  
type="results">

**Cone Search (in Ops)**  
Henrik Norman

Many services already  
use UCD1+ which is not  
standard...but will be.

**TAP (in Ops)**  
Henrik Norman

Remember: Reserved words  
(e.g. "size", "date", "area")  
*MUST* be delimited in ADQL  
and TAP\_SCHEMA.columns.

**TAP (in Ops)**  
Markus Demleitner

Advice to improve UX by  
improving error messages:

- Re-use an existing ADQL parser
- Try with PyVO

[See more](#)

**TAP (in Ops)**  
Everyone

Interesting discussions  
about security/attack  
issues with ADQL and  
TAP.

# Let's get connected!



**DAL mailing list**

---

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



**DAL channel**



**Twiki IvoaDAL**



**IVOA documents**