



IVOA Interoperability Meeting

Görlitz – November 2025

DAL WG

Data Access Layer Working Group

Chair: Grégory Mantelet

Vice-Chair: Joshua Fraustro



STScI | SPACE TELESCOPE
SCIENCE INSTITUTE

DAL sessions

1. 14 Nov 14:00 Joint session: DAL + Registry
2. 14 Nov. 16:00 DAL session
3. 15 Nov. 17:00 Splinter DAL + DSP

Highlights in DAL standards

ConeSearch - 1.1 status

Marco Molinaro

- Comply with DALI
- Include DataOrigin (at least IVOID)
- Most issues (almost) solved
 - ...but unique identifier column
- SR=0 is not an error!
- Let's publish a 1st WD!

Simple Cone Search 2 and Transitioning To It

Markus Demleitner

- New features proposed (e.g. POS, UPLOAD, TABLE)
- No implementation yet
- Optimistic transition plan from 2026 to 2031
- Requires a transitioning team

Finally: Towards TAPRegExt 1.1

Markus Demleitner

- Difficulties due to lot of SHOULD and MAY in TAP doc.
- forMode=sync/async for limits
- <endpoint> elements + RDFa
- Deprecate <dataModel>

Highlights in DAL implementations

Implementing Datalink in VizieR

Ivan Brossard

- Use DataLink for special columns of VizieR
- Links to SIMBAD, plots, Notebooks
- Works with TOPCAT and astropy

Creating a tool to automatically generate an ObsCore Table from a FITS collection

Nathan Barloy

- FITS -> table => access with TAP/ObsCore, SIA and SSA
- Python library
- Challenges with the FITS keywords (standard or not)

ESDC TAP Stateless Follow-up

Jose Osinde Lopez

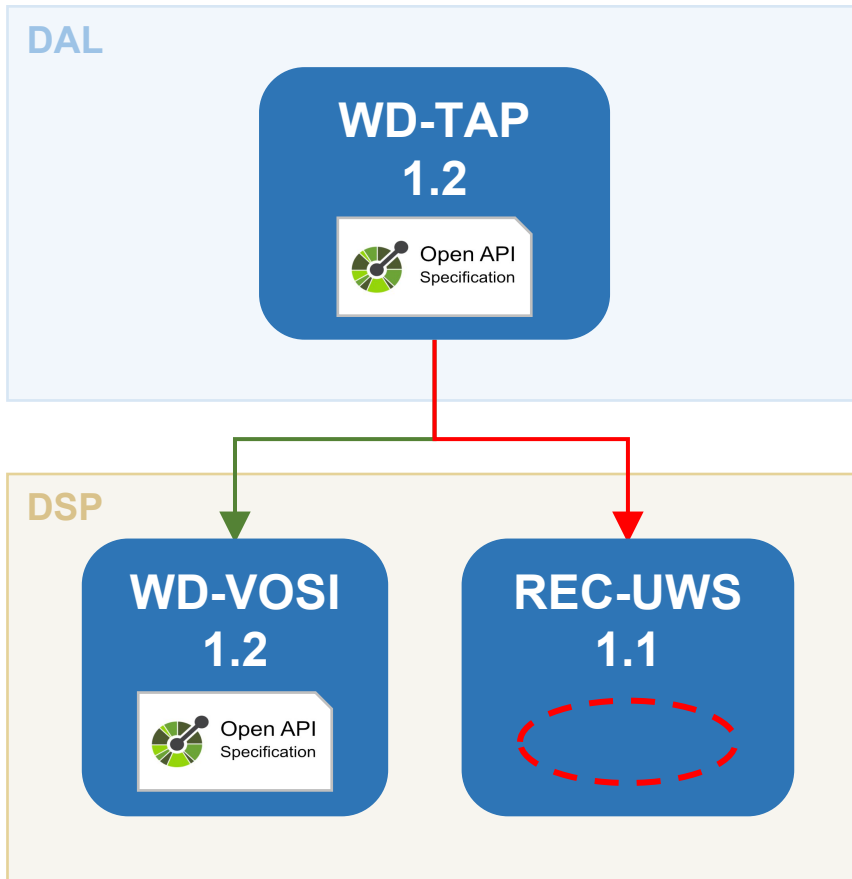
- How to keep state between multiple TAP instances
- State data closed to the DB
- Popular in-memory DB solutions to explore (e.g. Redis, ..)
- Importance of stress tests

Euro-VO validator for ObjObsSAP

Erik Mellegård

- Validation of WD-ObjObsSAP-1.0 services now possible (by Web form and HTTP API)
- Now, 2 services fully valid
- Call for more impl. (client & server)

DAL+DSP Splinter – TAP/UWS/VOSI



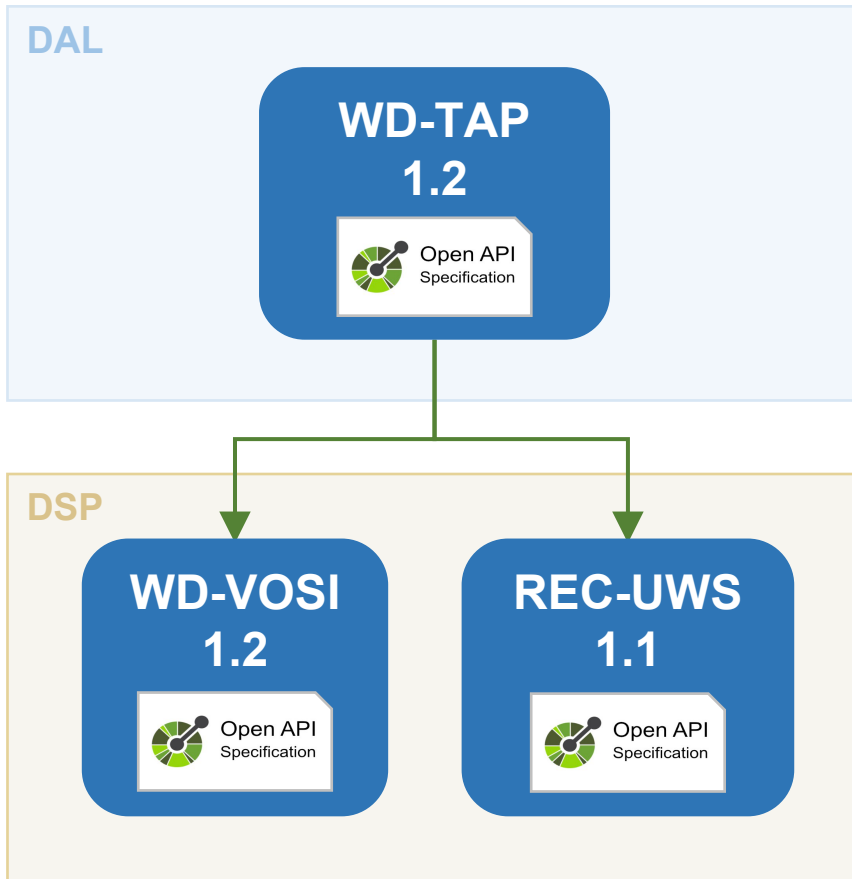
Date: Sat.15 Nov. 2025 - 17:00

See [Notes](#)

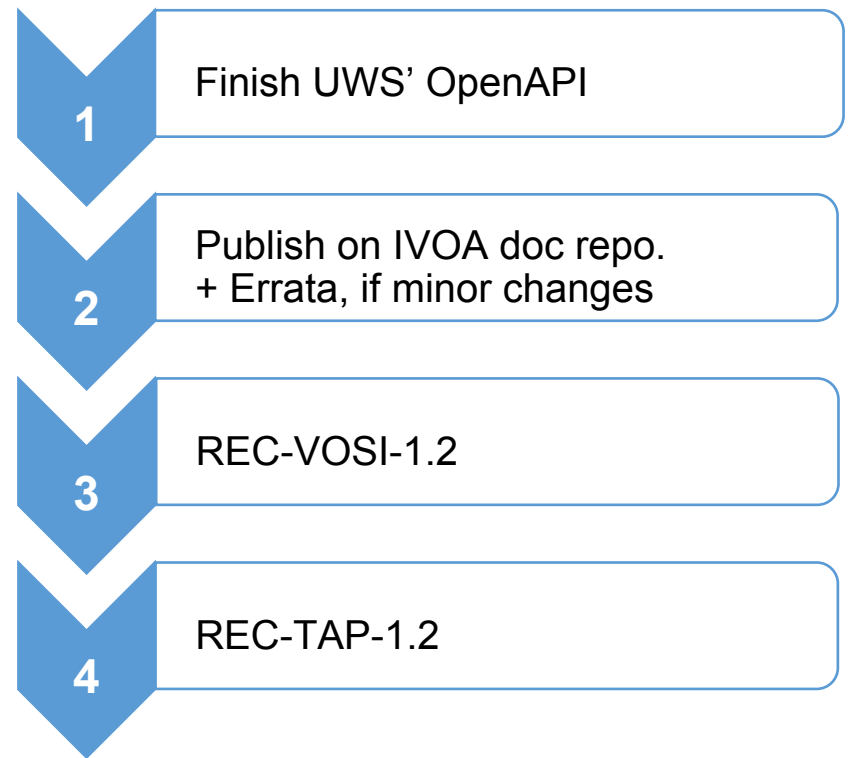
Motivation

- TAP-1.2 provides an OpenAPI description
- VOSI-1.2 too
- **But** nothing for UWS yet

DAL+DSP Splinter – TAP/UWS/VOSI



Plan



Well-received messages - 1

from other sessions

DAL (DSP)

Dave Morris

Code generation
with OpenAPI
works!

DAL (DSP)

Mark T. & Jesus S.

Follow [AuthVO](#) to
allow authentication
for non-browser
clients (OAuth2
challenges)

DAL (Ops)

Henrik Norman

- No more issues with SIAv2
- SR=0 and UCD issues with SCS
- More issues with TAP

DAL (Ops)

All

*LLM crawlers:
what can we do to
protect services?*

Well-received messages - 2

from other sessions

TAP & SCS (DM)

Laurent Michel

TAP & SCS
implementations
providing
MIVOT/MANGO

DAL (Apps)

Mark Taylor

- VOTable-1.6
- datatype="(unicode)char"
character encoding
 - DataLink MIME-Type
 - DALI #66: xtype="strings"

TAP (DM)

Pat Dowler

Possibility to use
VODML ref as
UTypes in the
TAP_SCHEMA

ObsTAP (DM)

All

ObsCore extensions
serialization for
TAP

Let's get connected !



[DAL mailing list](#)



[DAL Channel](#)

[Grégory Mantelet](#) (*chair*)
[Joshua Fraustro](#) (*v-chair*)



[Twiki IvoaDAL](#)



[IVOA documents](#)