



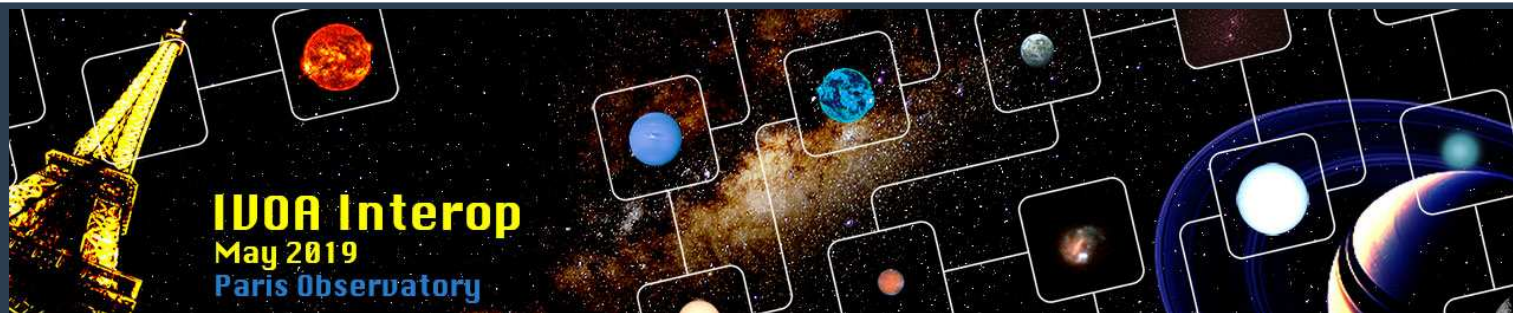
# Data Access Layer

## Working Group

# Closing Plenary

Marco Molinaro & James Dempsey

17 May 2019





- 2 WG sessions
- 1 joint session on authentication
  - Included/fostered by TAP-1.1
- 1 splinter session on DataLink
- 2 talks in DM sessions
  - SSLDM & ProvenanceDM dependency
- The usual coffee/lunch break chats to clarify issue levels

- **Richard reported on the documents status**
  - Implementations are already in place (Chandra, XMM Newton, Integral, Gaia)
  - Also a client prototype exists (ESA) that can be used to validate/prove interoperability
- **Menelaos reported on the Chandra implementation for both protocols**
  - Including details on changes made while the specification progressed
- **Plans are to reach WD 1.0 status by next Interop and PR in early 2020**
  - Though some more interaction with ground base facilities would be a nice addition
- **Some issues arisen**
  - ObsLocTAP looks like a model, maybe better to have a name change
    - Though the scenario of expressing tabular data via TAP hasn't been really explored
  - “visibility” is used in other contexts already, maybe we should prefix it

- François reported potential revision topics/features for SIAP-2.0 & SODA-1.0
- **Virtual Dataset access played a major role**
  - Use cases exist
  - Care as to be taken not to create confusion on the provider side
  - Possibly a revised description of the ObsCore → SIAP → SODA framework can help
  - SODA descriptor in the SIAP response should suffice
- **SODA next features may be various**
  - Finer FITS/dataset access; regridding/rebinning
  - be careful on the computation requirements, not invading the “code to data” efforts
- **Kenny presented the LSST SODA implementation**
  - Python, designed for scalability & performance; held a (Jupyter demo)
  - steep step approaching the VO standards
  - feedback on getting the specification from the repository

- **Pat reviewed the features from the DALI-Next page**
  - Mainly xtypes additions: e.g. for MOC (uncontentious)
  - Solution for EPN requirement replacing the deprecating COOSYS proposed
    - But hasn't been discussed
  - xtypes for complex morphologies, disjoint shapes need further discussion
    - But time lacked (also to have a splinter on this REC revision)
  - Follow up on mailing list...

- Both presented in DM sessions
- Nicolas attached SLAP-2.0 status in SSLDM-2.0 talk
  - SSLDM-2.0 should soon reach WD
  - SLAP-2.0 will follow its model PR/RFC roadmap
- François reported ProvTAP in Provenance session
  - No specific issue
  - Does ObsLocTAP “model” issue applies also to this protocol?

# TAP-1.1 & Authentication



- Full joint session, fostered by TAP-1.1 authenticated endpoints
  - DAL / GWS / Apps / Registry
- Brian gave a nice summary of what the session was meant for
- Pat over-viewed all changes from v.1.0 to v1.1 including current authenticated endpoints solution
- Mark T. reported history since College Park and TOPCAT/STILTS developments WRT authenticated endpoints
- Markus gave a summary overview from the Registry perspective
- TAP-1.1 seems to be ready to be voted by TCG
  - pending some text clarification on single/multiple Interfaces per Capability
  - Implementations in place (maybe more coming up)
  - Validator to be updated
- Authentication Server/Client scenario yet not complete
  - More on this in the GWS WG closing remarks

# Some more TAP



- **Bruce: TAP implementation for the NASA Exoplanet Science Institute**
  - Lightweight python, DBMS agnostic
  - The difficult part? ADQL!
- **Gregory reported in the plans for VOLLT**
  - includes what was TAP lib, ADQL lib, UWS lib with more libraries to join this framework
- (same session – off topic) Marco reported on the issues with IA2 DC dealing with few resources in a changing VO scenario (suggestion to share DC experiences in DAL, not only at operational level)



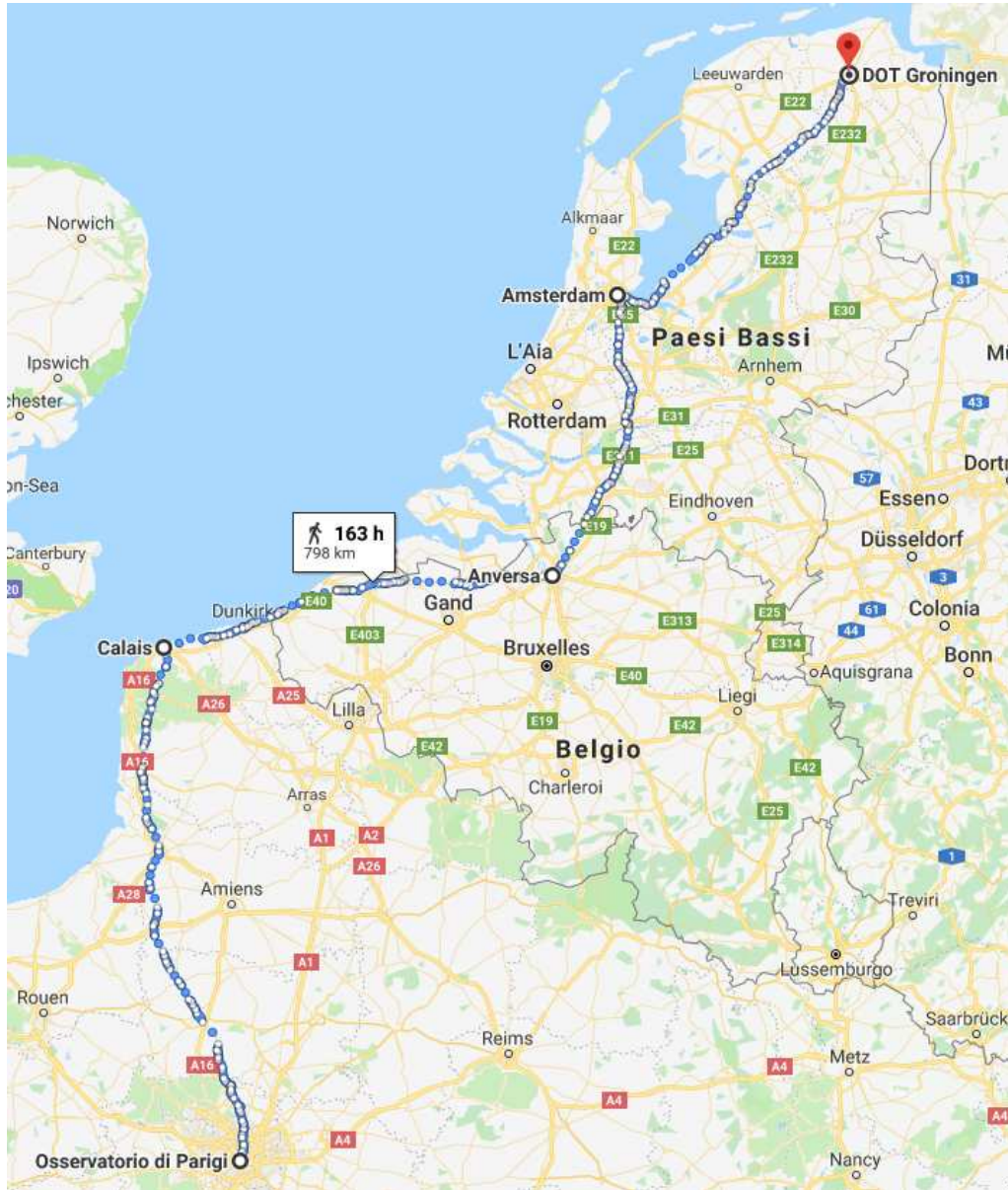
# ADQL-2.1 & PEG grammar



- **Gregory plans on ADQL 2.1 implementation**
  - Some fixes on the BNF grammar and features
  - Agreement on UDF functions (IVOA Note by Jon)
- **Jon ADQL-2.1 compliant PEG grammar**
  - And python parser ready
  - Requires some more testing
  - If ready it can go in an ADQL-2.2 revision
    - But 1 more parser needed & more validation queries
- **Dave ADQL-2.1 status report**
  - Continue on issue fixing
  - No new changes
  - The document is now available in GitHub

- **François presented the list of changes to be discussed for inclusion in v.1.1 revision**
  - As per his talk in College Park
  - Discussion notes will be attached to the DAL schedule of this Interop
  - Debated points:
    - #fragments in access\_url
    - ReST templating for service descriptor
    - Registry/capability section in the document
  - DataLink will be ported in ivoatex in GitHub for revision

# Roadmap to Groningen



- 163 hours walk
  - 103-146 days available
- ~1-1½ hours per day
- Mostly summertime.

# Roadmap to Groningen



- TAP-1.1 expected REC in summer
- ADQL-2.1 waiting 2<sup>nd</sup> implementation to enter RFC (fall?)
- DataLink 1.1 revision (internal WD)
- DALI 1.2 revision, pending some discussion
- ObjVisSAP / ObsLocTAP 1.0 WD before Groningen, PR in 2020
  - Some “format” discussion, content to stay as is
- SLAP-2.0 & ProvTAP, dependencies on DM

# Thank you to all participants!



## Keep discussions alive!

DAL collaborative pages

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

DAL mailing list

- [dal@ivoa.net](mailto:dal@ivoa.net)
- <http://mail.ivoa.net/mailman/listinfo/dal>



DAL closing – May 2019 Paris Interop – 17 May 2019