



DAL concluding remarks

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Long term standards upgrade

- Pat Dowler → TAP 1.1 spec has been recently upgraded to a PR version.
 - New version of the PR in November
 - beginning of the RFC period soon after
 - VOTable DALI and TAP data typing are now common (datatype, arraysize, xtype)
 - Schema_index has been added
 - CADC implementation ready : hard work to upgrade the datatyping system. Also for CAOM
- Solution found with Registry and GWS to
 - differentiate sync and async services.
 - provide a way to have authenticated service access directly known to clients.
- arraysize=1 versus NULL-arraysize has been discussed in Apps

Long term standards upgrade

- Dave -> ADQL 2.1 has been revisited and a new version of the draft will be released just after Interop.
 - REGION removed
 - Changes on CIRCLE text
 - TIMESTAMP is now Date Time, no string
 - VOTABLE STC annotation for CoordSYS required. Not In TAP presently
 - Question: Rand(x,n). Should we suppress the seed n?
 - Check consistency of all DAL documents against the new datatype system. -> volunteers to do that ?

Long term standards upgrade

- Marco -> SCS1.1 version is in discussion.
 - Better DALI compliance
 - VOTABLE version upgrade ??? Rather yes
 - UCD1+ upgrade ??? Rather no
 - Explain How to build SCS on top of a TAP service.
- Nicolas Moreau (presented by FB) → Upgrade for SLAP 1.1. make model, queries and responses more consistent with VAMDC model evolutions
 - Comments for larger DALI compliancy effort
 - Question about going directly to SLA version 2 based on VAMDC + TAP ??? Could we need both operations?

Implementations and feedback reports

- Simon O'Toole → TAP implementation into HADOOP at AAO (anglo australian telescope).
 - Distributed data mangment of a large collection of survey data (2DF, 6DF, RAVE, GAMA, etc...). TAP Library implemented. Partial ADQL implementation
 - Future plans : ADQL mapping; SIA2, SSA, SCS, etc...
- Walter Landry → implementation of CAOM to generate SIAV2.
 - Helped a lot eventually. But difficult to implement
 - Parameter based SIAV2 usefull to help users
 - Other protocols questionned (SSA, DataLink etc..)
- F.Bonnarel → DataLink feedback
 - Outside ObsCore context: Discover via LINK (single base URL) or via utyping the url and format FIELDS
 - Should add semantics for datasets assocaied with astronomical sources

New ideas, new proposals

- ▶ Markus D. → proposal to use sql-array like features in ADQL for second generation SODA. WCPS (similar to WCS) works like this in geosciences
- ▶ Ole Streicher → PROVDAL is a protocol to retrieve the provenance information with a few mandatory parameters. Implementation exists in Postdam
- ▶ F.Bonnarel → ProvTAP is the project of a TAP service for provenance metadata. Work in progress in Strasbourg
- ▶ ProvdAL and ProvTAP spec to be extracted from ProvenanceDM draft
- ▶ ProvdAL is simpler to implement than ProvTAP.
- ▶ Jesus Salgado and ESA propose a new protocol specification for homogeneous access to visibility checkers of space missions. Extendable to ground observations.

TimeSeries discovery and access

- ▶ DAL/DM/TDIG common session Friday morning
- ▶ Discovery Use cases distinguish source-driven, Obscore-like driven and physical content driven TimeSeries discovery
- ▶ Obscore-like may require additional metadata (exposure, sampling, etc...)
 - A wiki page is to be opened by TDIG to discuss the additional metadata
 - TimeSeries discovery and acces requires small changes in several protocols ? Endorsed notes and TimeSeries Implementation “hat” ? → First draft soon.
- ▶ TimeSeries representation and serialization in the hands of DM WG

Reports of DAL services errors by validators

- ▶ Ops IG recently reported to us a lot of errors on SCS, SIA, SSA, TAP services, etc...
 - ▶ For SCS some errata have been recently proposed and will fix problems
 - ▶ Further investigation needed for other protocols
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