

TAP-1.1 implementation

Patrick Dowler

Canadian Astronomy Data Centre

2016-05-10



- archive metadata (/tap)
 - caom2 (Common Archive Observation Model 2.1)
 - 5 core tables + 5 supporting tables/views
 - ivoa.ObsCore (ObsCore-1.1) + custom extensions
- catalogues (/cat) – coming soon!
 - fork to separate project catalogues from core service
- archive (/ad) – new, unregistered
 - present a query interface to archive file metadata
 - authorized access only (telescope staff)

- all endpoints are siblings of VOSI-capabilities
 - /tap/capabilities
 - /tap/async (anon)
 - /tap/sync (anon)
 - /tap/auth-async (username+password)
 - /tap/auth-sync (username+password)
 - /tap/availability
 - /tap/tables (anon)
 - /tap/auth-tables (username+password)
 - also X509 client certificate authentication for all HTTPS requests

TAP_SCHEMA

- added arraysize to TAP_SCHEMA.columns
 - kept “size” (TAP-1.0 compat)
- added quotes around “size” column name; better support for quoted identifiers
- added table_index to TAP_SCHEMA.tables
- added column_index to TAP_SCHEMA.columns
 - table_index and column_index set for ivoa and caom2 tables: clients can try that out

TODO

- complete WD-ADQL-2.1 support
 - intend to build a working parser from the BNF grammar
- finish conversion to WD-DALI-1.1 (xtypes)