

OpenCADC - cadcUWS

- Universal Worker Service library
 - provides Job class
 - provides servlet with /async behaviour
 - provides servlet with /sync behaviour
 - provides XML read/write of UWS job
 - plugin architecture enables customisation
 - now with base JobDAO class for RDBMS persistence of jobs
 - plugin configuration in web.xml
- java + restlet, JDOM, log4j



OpenCADC - cadcVOSI

- VOSI-availabity servlet
 - java interface for custom runtime tests
 - configure plugins in web.xml
- VOSI-capabilities servlet
 - no custom code needed
 - configurable via web.xml
- java + JDOM, log4j



OpenCADC - cadcTAP

- VOSI-tables servlet
 - uses TapSchema support in cadcTAP
 - queries and writes VODataService XML on every request (~50ms for our service)
 - no other configuration, just deploy in web.xml
- java + JDOM, spring, log4j



OpenCADC - cadcTAP

- provides a cadcUWS JobRunner implementation called QueryRunner
- provides extensible validating ADQL parser
 - plugins to support table and column renaming
 - plugins to support ADQL geom -> pg_sphere
 - plugins to support TOP -> LIMIT
- provides STC-S library
- provides ResultSet -> VOTable, CSV, TSV
 - with custom Formatter support
- java + jsqlparser, JDOM, spring, javacsv, log4j



- CAOM (Common Archive Observation Model) http://www.cadc.hia.nrc.gc.ca/caom/
- ivoa.ObsCore: view on several joined CAOM tables
 - view described in TAP_SCHEMA according to std
 - do not actually have a schema called "ivoa"
 - do not actually have a column called s_region
 - generate access_url while writing output
 - did have to write code to generate/maintain dataproduct_type and calib_level



SIAv1 service is a client of our CAOM TAP service

http://www.cadc.hia.nrc.gc.ca/sia/

- caom.SIAv1: view on several joined CAOM tables
 - view described in TAP_SCHEMA according to SIA standard
 - cadcTAP query parser + VOTableWriter connect TapSchema metadata to the ADQL select-list: all FIELD metadata set from TAP_SCHEMA
- outputting VOTable 1.2 caused problems



CADC web UI is a client of our CAOM TAP service

http://www.cadc.hia.nrc.gc.ca/



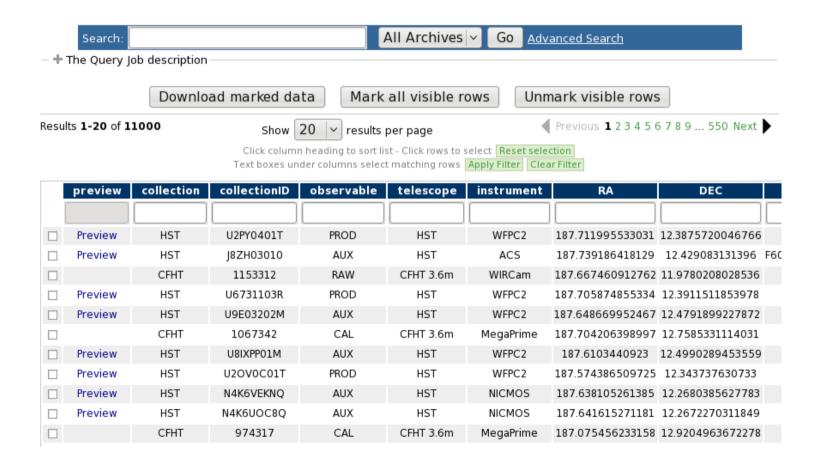


http://www.cadc.hia.nrc.gc.ca/

Search:		All Archives >	Go	Advanced Search
The Query Job description				
ΟV	View query job (UWS xml format)			
OK	Download query results (VOTable xml forma	at)		



http://www.cadc.hia.nrc.gc.ca/





- Javascript to control a UWS job from page was pretty simple
- both SIA service and the web UI use the sync servlet and JobDAO from cadcUWS
 - implement a custom JobRunner to handle params, create and start an async TAP query
 - put result page URL in the Job, sync redirects browser
 - side benefit: we store all user queries for usage analysis and to fix unreported bugs