

IVOA Interoperability Workshop – Pune – October 2011

TAP Usage in sims and in sims

Authors: Grégory Mantelet, Marc Wenger

Presented by: Mark Allen





Outline

- 1. Usage
- 2. Supported features
- 3. ADQL
- 4. Table Upload
- 5. TAP Implementation



Usage

- Web interface of Simbad-TAP
- Client application
 - Topcat
 - TAPHandle (generic tap web-interface) (see http://saada.u-strasbg.fr/taphandle)



Supported features

- Synchronous queries
- Asynchronous queries
- Availability
- Capabilities (still TAPRegExt 27th January 2011)
- Table metadata
- Upload (limit=2000 rows ; methods: inline, http)
- Output formats: votable, json, csv, tsv, text
- Languages: ADQL, PQL



ADQL

- Point, circle, box, polygon, region
- Contains, intersects, distance, area, centroid, coord1, coord2, coordsys
- /!\ Coordinate system limited to ICRS (barycenter)!



Table upload

- Usage in ADQL: TAP_UPLOAD.
- Goal: join your own tables with the Simbad ones
- Notes:
 - The tables are uploaded at the query submission
 - They exist only during the query execution
 - They can be used only by the query with which they have been uploaded



TAP implementation

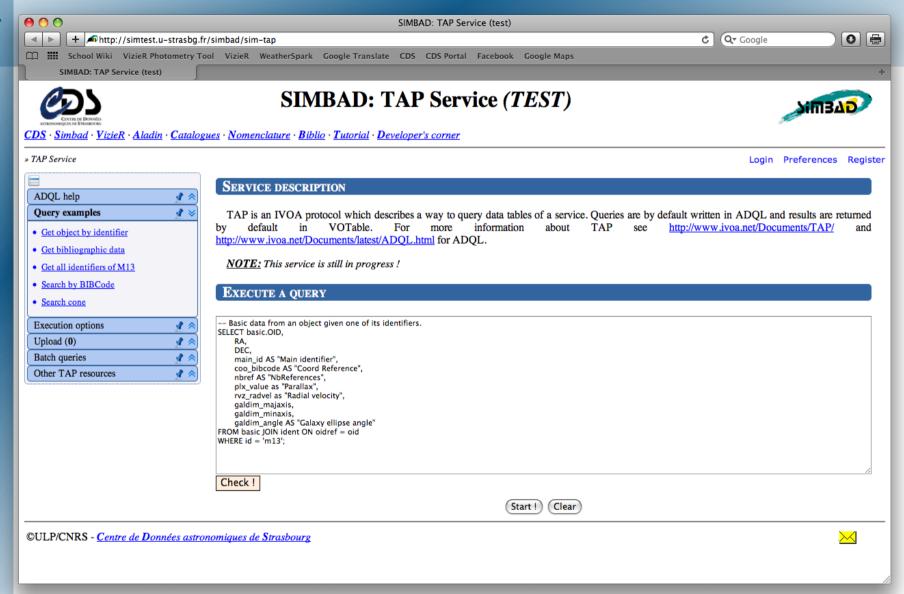
CDS TAP Library

DB : PostgreSQL + PgSphere



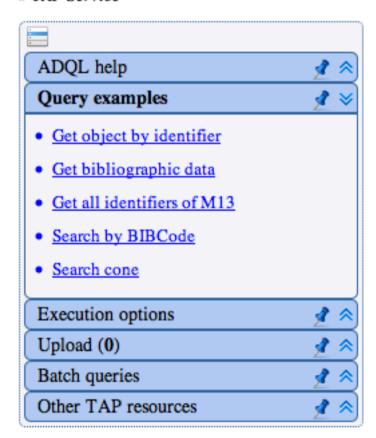








» TAP Service





Some links

- Simbad-TAP: test service address -see me
- PgSphere
 - http://pgsphere.projects.postgresql.org/
- CDS TAP Library (v1.0)
 - http://cdsportal.u-strasbg.fr/taptuto/
- Questions about Simbad-TAP:
 - cds-question@astro.unistra.fr