

IVOA Interoperability Meeting
22-26 October 2012 University of São Paulo
São Paulo, Brazil

IA2 TAP implementation: status & feedback



Implementation Feedback Session



Outline

- › Implementation
- › Feedback

- › EPN use case



Implementation

status

- › Based upon
 - » openCADC TAP Java library
 - and dependencies (saves work on UWS & VOSI)
- › Takes advantage on
 - » STIL library
 - mainly for UPLOAD encoding mechanism
- › Working - with some issues
 - » Mainly due to differing SQL flavours between libraries and archive system
- › Re-factored
 - » After Urbana (got in direct contact with libraries developers)



Implementation

utilization

- › IVOA TAP test endpoint
 - » Laurino&D'Abrusco data (~30Mrows)
 - » Accessible, not registered
 - we usually rely upon registry.euro-vo.org
- › EPN-TAP preliminary endpoint
 - » NASA dust catalog provided by INAF-IAPS
 - Presented at EPSC (Madrid, September)
 - » ObsTAP like approach
- › Non-astrophysical databases exposure
 - » Astrophysical data related
 - » Test implementation on local machine
 - will require authentication
 - » ...at 'I have an idea' level



Implementation

in development

- › Multiple TAP endpoints managed by a single WebApp
 - » Multiple resources can share the same TAP endpoint
 - We prefer having 1 endpoint x 1 (global) resource
 - instead of a mega-TAP exposing everything
- › VO-Dance merging
- › EPN-TAP adjusting to protocol in progress



Feedback protocol

- › Fixed schema names
 - » TAP_SCHEMA (TAP_UPLOAD?)
 - work-arounds
 - protocol constraining archive
 - » Feature proposed in the TAP notes doc
 - Using a Utype for the schema in *tables* TAP endpoint
 - support implementation to be developed a.s.a.p.
- › Datatypes in metadata tables
 - » document description not clear (to me at least)
- › UCDs/Utypes
 - » Utypes are sometimes difficult to find
 - » UCDs maintenance not clear to external users
 - update/insertion track
 - we can propose ourselves as UCD mirror maintainers, if needed



Feedback

development tasks

- › Upload URI/inline
 - » if UPLOAD implemented: both are a MUST
→ we used a workaround to force inline into a URI
- › TAP_SCHEMA tables names
 - » MySQL reserved words: schemas & keys
→ join it with ADQL `` and MySQL ` : quite a nightmare
- › Other minor issues related to VOSI/DB-schemata information cross-check serving of metadata
- › ...plus some other fixes

EPN-TAP use case

- › In collaboration with INAF-IAPS (Rome)
 - » 1 catalog already exposed (test phase)
 - images, spectra and dust particles properties exposed as single resources and overall dataset
 - » Another catalog on the way (adds records to current service)
 - » Other 2 resources to be tested (using the same EPN-TAP service)
- › TAP based protocol
 - » ObsTAP like
 - » Data Model driven
 - Pierre Le Sidaner EPN talk this afternoon
- › Uses the same webapp as the IVOA TAP
 - » Added an epn_core table to the exposed DB
 - required by EPN Data Model
- › A good opportunity to widen interoperability through standards and to generalize vocabularies and semantics

Thank you!



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