



Fig. 1



Fig. 2

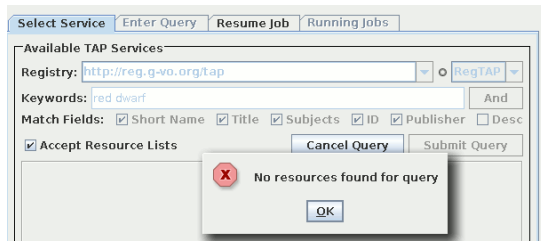


Fig. 3

## 1. GloTS? AuxCAP?

(cf. Fig. 1)

Markus Demleitner  
msdemlei@ari.uni-heidelberg.de

(cf. Fig. 2)

- Discovery of TAP tables in Sesto
- Discovery of TAP tables now
- Still unhappy!
- What about you?

## 2. TAP table discovery, Sesto

(cf. Fig. 3)

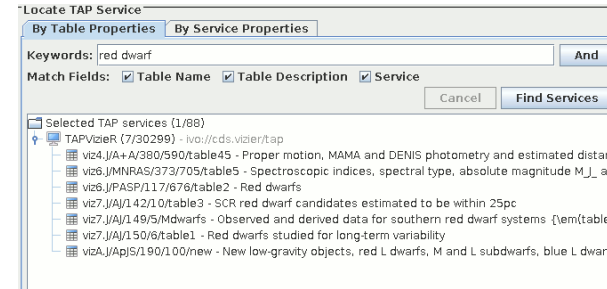


Fig. 4

## 3. TAP table discovery, Sydney

(cf. Fig. 4)

## 4. Problem Solved?

Perhaps.

TOPCAT draws this data from GloTS, the Global TAP schema filled by harvesting from the registred TAP services' TAP\_SCHEMA tables. So?

## 5. Why I am Unhappy

- Inhomogeneous discovery (RegTAP for "normal" resources, GloTS for TAP tables)
- No (structured) resource metadata in TAP\_SCHEMA apart from description (i.e., no creator name, creation date, coverage...)
- Harvesting TAP\_SCHEMAS sucks [#1 annoyance: dead services behind reverse proxies timing out only after minutes of inactivity]

## 6. Proposed Solution

Tables have normal (Data-/CatalogService) records, with an additional auxiliary capability:

```
<capability standardID=
  "ivo://ivoa.net/std/TAP#sync-1.0-aux">
  <interface xsi:type="vs:ParamHTTP" role="std">
    <accessURL use="base"
      >http://vizier.u-strasbg.fr/viz-bin/VizieR<accessURL>
    <mainServiceId>ivo://cds.vizier/tap</mainServiceId>
  </interface>
</capability>
```

Draft note:

<https://volute.g-vo.org/svn/trunk/projects/registry/discovercollections><sup>1</sup>

(Formatted: <http://docs.g-vo.org/discovercollections.pdf><sup>2</sup>)

## 7. AuxCap

In prototypes, it was found a reliable way to find the embedding service was required.

- The current draft has a SHOULD on a *served-by* relationship (could move to MUST; but that's on resource, not capability)
- `<mainServiceId>ivo://foo/bar<mainServiceId>?` (but IVOIDs tend to be in attributes in current VOResource)
- `<mainService ivo-id=ivo://foo/bar»bar at foo</mainService>?` (but that's repeating the main service's short name)

## 8. You tell me

1. Make GloTS a standard? Make it mandatory within RegTAP?
2. **or** go for AuxCap?

I'll go for AuxCap any day, but you may not want to: With it even a medium TAP installation would really have to run OAI-PMH and come up with proper metadata for their tables.

Of course, VizieR already has that – and everyone else is just a 10% problem. . .

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<sup>1</sup> <https://volute.g-vo.org/svn/trunk/projects/registry/discovercollections>

<sup>2</sup> <http://docs.g-vo.org/discovercollections.pdf>