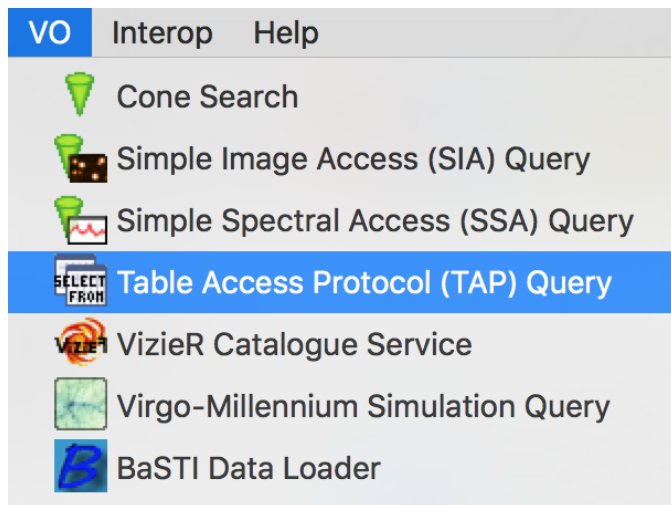


Searching for EPN-TAP Services in the Registry

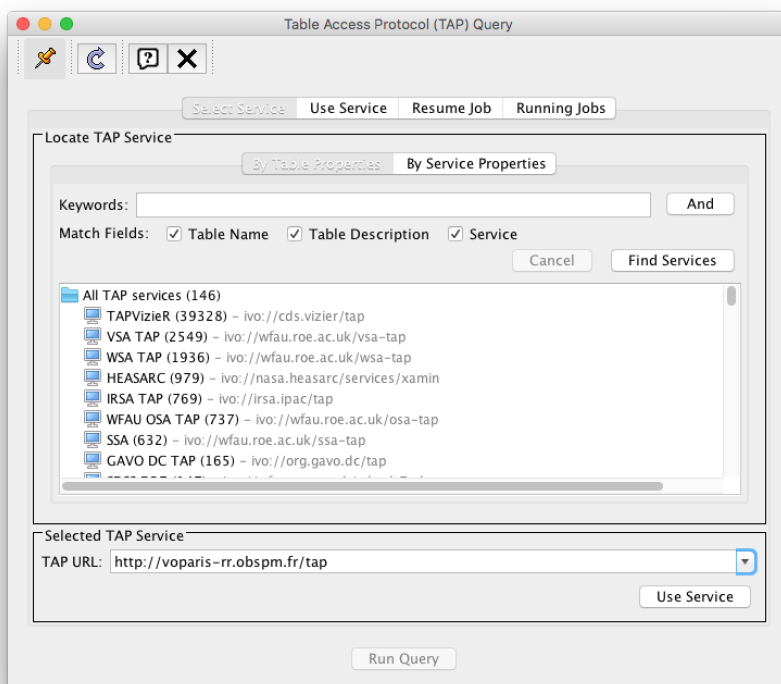
Accessing the registry through TOPCAT

The use of [TOPCAT](#) is preferred.

In TOPCAT, click on VO Menu and select the TAP Query item.



In the TAP URL text box (bottom of the window) : <http://voparis-rr.obspm.fr/tap> -> Use Service.



Then it is possible to issue ADQL queries in the next page.

How to identify a TAP service

Previous (dirty) solution

Look for tables names ending with `epn_core`.

```
SELECT ivoid FROM rr.res_table WHERE table_name LIKE '%.epn_core'
```

This query returns 192 results, but there are duplication and redundant results. This query is thus not optimal.

Recommended solution

Search for table utypes old version (e.g., [ivo://vopdc.obspm/std/epncore#schema-2.0](#)).



It is possible to filter on the EPNcore version. This helps to avoid out-dated services, but it could be problematic at the time of minor EPN-TAP version changes. This implies that providers must upgrade their resource regularly (as well as on clients). This is to be discussed.

A query including the EPNcore version would be one of the following:

```
SELECT ivo_id FROM rr.res_table WHERE table_utype = 'ivo://vopdc.obspm/std/epncore#schema-2.0'
```

27 results

This utype is deprecated.

With DaCHS 2, the utype of epn-tap services is filled automatically with the value '[ivo://ivoa.net/std/epntap#table-2.0](#)'

```
SELECT ivo_id FROM rr.res_table WHERE table_utype = 'ivo://ivoa.net/std/epntap#table-2.0'
```

133 results

A query matching all EPNcore versions would be:

```
SELECT ivo_id FROM rr.res_table WHERE table_utype LIKE 'ivo://vopdc.obspm/std/epncore%' OR  
table_utype LIKE 'ivo://ivoa.net/std/epntap#table%'
```

which returns with 178 results at the time of writing.

For both examples, we retrieve in the same table the TAP access point (e.g., [ivo://vopdc.obspm/tap/maser](#)), as well as EPNcore services (e.g., [ivo://vopdc.obspm/lesia/maser/expres/epn](#)). The TAP servers must be removed. We can filter TAP access points out with the `tr:tableaccess` capability.

Checking if services are correctly registered

Using the previous queries, including the filter to remove TAP endpoints, we get the following query:

```
SELECT rr.res_table.ivo_id FROM rr.res_table WHERE table_utype LIKE 'ivo://ivoa.net/std  
/epntap#table-2.%' AND ivo_id NOT IN (SELECT rr.capability.ivo_id FROM rr.capability WHERE cap_type  
= 'tr:tableaccess')
```

We obtain 93 results:

TOPCAT(40): Table Browser

Window Rows Help

Table Browser for 40: TAP_41_rr.res_table,rr.capability

	ivoid
1	ivo://geops.ipsl/exotopo/q/epn_core
2	ivo://idoc/medoc/eit_syn/q/epn_core
3	ivo://idoc/medoc/gaia_dem/q/epn_core
4	ivo://idoc/psup/omega_cubes/q/epn_core
5	ivo://idoc/psup/omega_maps/q/epn_core
6	ivo://idoc/q/epn_core
7	ivo://jacobsuni/mars_craters_lagain/q/epn_core
8	ivo://jacobsuni/mars_craters/q/epn_core
9	ivo://jacobsuni/planetserver_crisp/q/epn_core
10	ivo://jacobsuni/planmap/q/epn_core
11	ivo://jacobsuni/usgs_wms/q/epn_core
12	ivo://lmd.jussieu/vcd/q/epn_core
13	ivo://org.gavo.dc/mpc/q/epn_core
14	ivo://org.gavo.dc/titan/q/epn_core
15	ivo://osug-vo.osug/dev_sshade_spectra/q/epn...
16	ivo://osug-vo.osug/dev_sshade_spectra/q/imp...
17	ivo://osug-vo.osug/sshade_spectra/q/epn_core
18	ivo://osug-vo.osug/sshade_spectra/q/import
19	ivo://padc.obspm.helio/bass2000/q/epn_core
20	ivo://padc.obspm.helio/hfcl1ar/q/epn_core
21	ivo://padc.obspm.helio/hfclt3/q/epn_core
22	ivo://padc.obspm.planeto/apis/q/epn_core
23	ivo://padc.obspm.planeto/basecom/q/epn_core
24	ivo://padc.obspm.planeto/bdip/q/epn_core
25	ivo://padc.obspm.planeto/dynastvo/q/epn_core
26	ivo://padc.obspm.planeto/exoplanet/q/epn_co...
27	ivo://padc.obspm.planeto/hst_planeto/q/epn_c...
28	ivo://padc.obspm.planeto/iks/q/epn_core

Total: 93 Visible: 93 Selected: 0

Hints for clients

Retrieve the service infos:

```
SELECT rr.res_table.ivoid, access_url, table_name, short_name, res_title, res_description,
reference_url FROM rr.res_table NATURAL JOIN rr.resource NATURAL JOIN rr.interface WHERE
table_utype = 'ivo://vopdc.obspm/std/epncore#schema-2.0' OR table_utype = 'ivo://ivoa.net/std
/epntap#table-2.0' AND ivoid NOT IN (SELECT rr.capability.ivoid FROM rr.capability WHERE cap_type
= 'tr:tableaccess')
```

Retrieve also the publisher/contact/creator/contributor:

```
SELECT rr.res_table.ivoid, access_url, table_name, short_name, res_title, res_description,
reference_url, role_name, base_role AS rol_name FROM rr.res_table NATURAL JOIN rr.resource NATURAL
JOIN rr.interface NATURAL JOIN rr.res_role WHERE table_utype = 'ivo://vopdc.obspm/std
/epncore#schema-2.0' OR table_utype = 'ivo://ivoa.net/std/epntap#table-2.0' AND ivoid NOT IN
(SELECT rr.capability.ivoid FROM rr.capability WHERE cap_type = 'tr:tableaccess')
```