

RegTAP at ESAVO

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- a standardized relational view (subset) of an IVOA resource
- a way to execute ADQL queries on that relational view over HTTP POST
- recommendation

<http://www.ivoa.net/documents/RegTAP/20141030/PR-RegTAP-1.0-20141030.html>



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Select and execute any of the following sample queries.
(Notice that the text area is fully editable so you are able to adjust the queries or write your own from scratch)

[11]Find Contact Persons	<pre>SELECT DISTINCT base_role, role_name, email FROM rr.res_role NATURAL JOIN rr.interface WHERE access_url='http://dc.zah.uni- heidelberg.de/tap'</pre>
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A typical use case for this query might be "The service at http://dc.zah.uni-heidelberg.de/tap is down, who can fix it?". The query uses the rr.res_role table and returns all information on it based on the IVORN of a service that in turn was obtained from rr.interface. You could restrict to the actual technical contact person by requiring base_role='contact'.

Search Clear



Cone Search

Window Columns Registry Interop Help

Registry: <http://registry.euro-vo.org/regtap/tap> RegTAP

Keywords: [] And

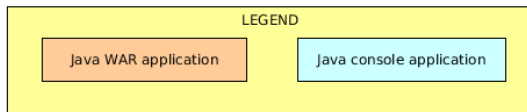
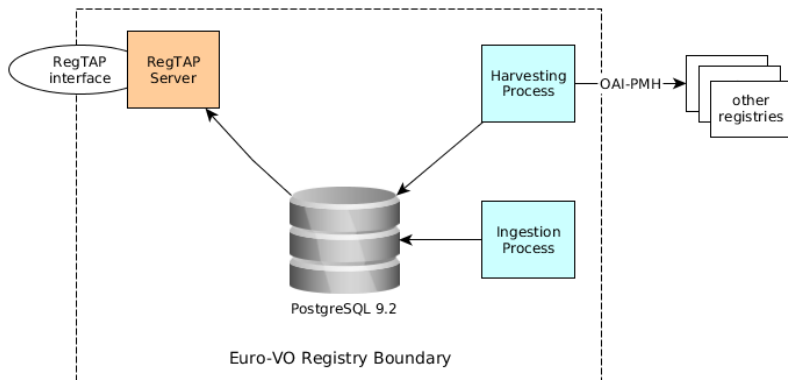
Match Fields: Short Name Title Subjects ID Publisher Description

Accept Resource Lists [Cancel Query] [Submit Query]

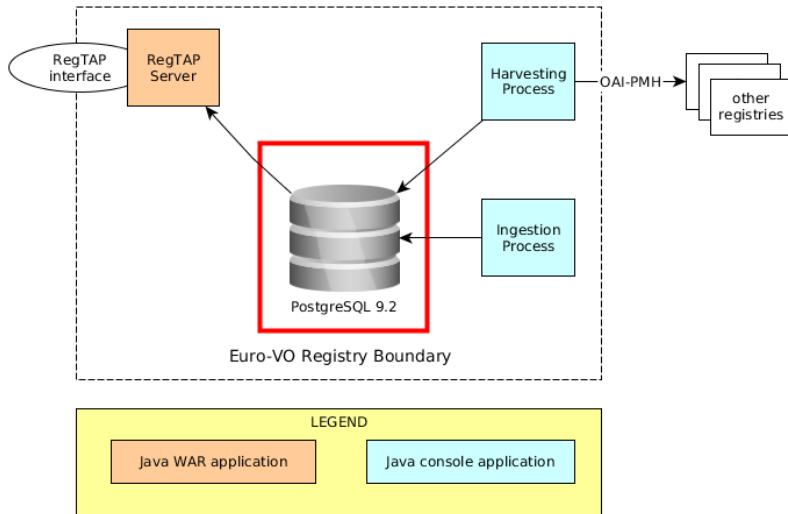
Short Name	Title	
3XMMe-CONESearch	3XMM Enhanced Catalogue	3XMM Er
ADS	Astrophysics Data System	Astrono
ALFALFA	Arecibo Legacy Fast ALFA Survey	ALFA, AL
Arches-Xmatch	Arches Cross-matched Catalogue	Xmatche
B/avo.rad	MERLIN+VLA Images of HDF/HFF sources (Muxlow+, 2003)	
B/bax	The BAX Database (Blanchard+, 2004)	Clusters
B/cb	Cataclysmic Binaries, LMXBs, and related objects (Ritter+, 2014)	Novae, B
B/cfht	Log of CFHT Exposures (CADC, 1979-)	Obs Log
B/chandra	The Chandra Archive Log (CXC, 1999-2014)	Obs Log
B/corot	CoRoT observation log Release 13 (CoRoT, 2009-2014)	Stars:va
B/denis	The DENIS database (DENIS Consortium, 2005)	
B/eso	ESO Science Archive Catalog (ESO, 1991-2015)	Obs Log
B/evns	General Catalogue of Variable Stars (Samus+, 2007-2013)	Stars:va

A bare-bones RegTAP interface allowing you to post queries is also found at: <http://registry.euro-vo.org/regtap/tapHome.html>

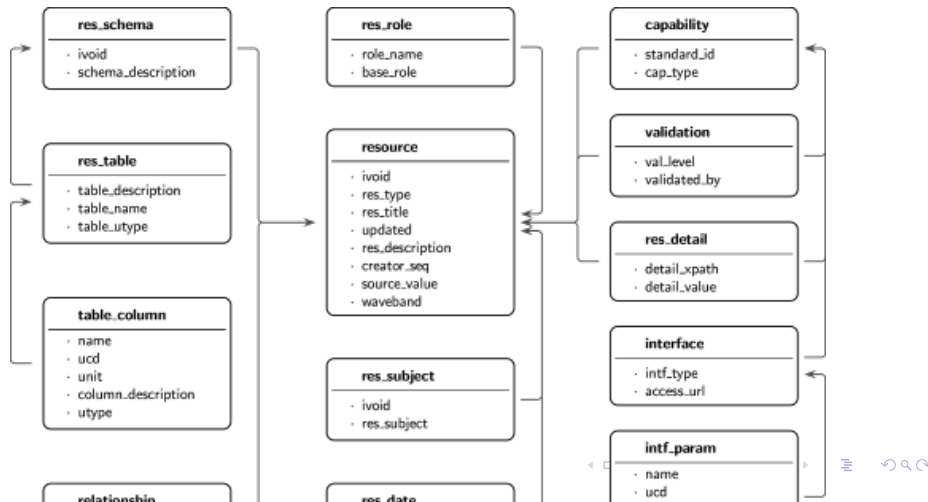
RegTAP implementation at EuroVO



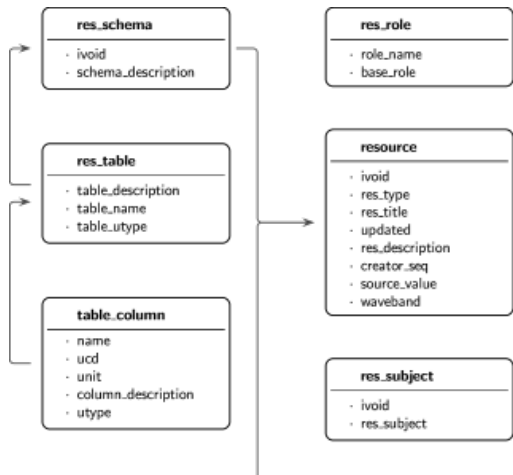
RegTAP database schema



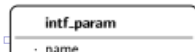
RegTAP database schema



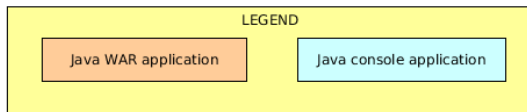
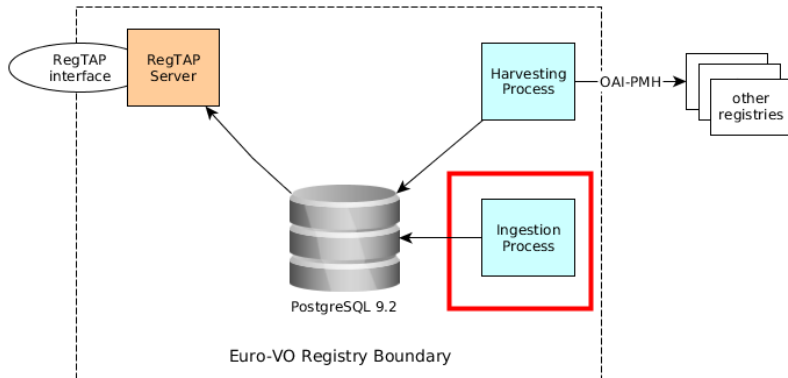
RegTAP database schema



```
91 CREATE TABLE IF NOT EXISTS resource (  
92     ivoid                vo_common.ivoid  
93     res_type             TEXT  
94     created              TIMESTAMP(1) WITH  
95     short_name          TEXT  
96     res_title           TEXT  
97     updated             TIMESTAMP(0) WITH  
98     content_level       TEXT  
99     res_description     TEXT  
100    reference_url       vo_common.url  
101    creator_seq         TEXT  
102    content_type        TEXT  
103    source_format       TEXT  
104    source_value        TEXT  
105    res_version         TEXT  
106    region_of_regard    FLOAT  
107    waveband            TEXT  
108    rights               TEXT  
109  
110 );  
111 ALTER TABLE resource ADD PRIMARY KEY (ivoid)  
112  
113 CREATE TABLE IF NOT EXISTS res_detail (  
114     ivoid                vo_common.ivoid NOT NULL,  
115     cap_index            SMALLINT        NULL,  
116     detail_xpath        TEXT            NOT NULL,  
117     detail_value        TEXT            NULL  
118 );  
119  
120 ALTER TABLE rr.res_detail ADD CONSTRAINT res  
121 FOREIGN KEY (ivoid) REFERENCES resource (ivoid)  
122 ON DELETE NO ACTION ON UPDATE NO ACTION ;
```



Ingestion



8.4 The capability Table

The capability table describes a resource's modes of interaction; it only contains the members of the base `res_detail` table (see [8.13](#)).

The table has a `cap_index` to disambiguate multiple capabilities on a single resource. See section [3](#) for de

Column names, utypes, ADQL types, and descriptions for the `rr.capability` table

<code>ivoid</code> <code>xpath:/identifier</code>	<code>VARCHAR(*)</code> The parent resource.
<code>cap_index</code>	<code>SMALLINT(1)</code> An arbitrary identifier of this capability within the resource.
<code>cap_type</code> <code>xpath:@xsi:type</code>	<code>VARCHAR(*)</code> The type of capability covered here.
<code>cap_description</code> <code>xpath:description</code>	<code>VARCHAR(*)</code> A human-readable description of what this capability provides as part
<code>standard_id</code> <code>xpath:@standardID</code>	<code>VARCHAR(*)</code> A URI for a standard this capability conforms to.

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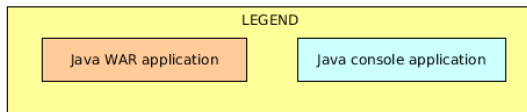
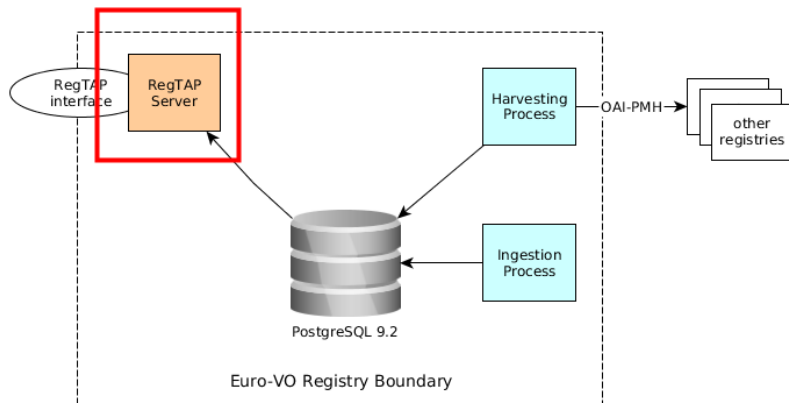
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<code>ivoid</code>	<code>VARCHAR(*)</code>	The parent resource.
<code>xpath:/identifier</code>		

<code>cap_index</code>	<code>SMALLINT(1)</code>	An arbitrary identifier of this capability within the resource.
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<code>cap_type</code>	<code>VARCHAR</code>	<code>1</code>	<code>capability ivoid cap_index</code>
<code>xpath:@xsi:type</code>		<code>2</code>	-----
<code>cap_description</code>	<code>VARCHAR</code>	<code>3</code>	<code>/*/capability</code>
<code>xpath:description</code>		<code>4</code>	<code>ivoid /*/identifier lowercase</code>
<code>standard_id</code>	<code>VARCHAR</code>	<code>5</code>	<code>cap_index count(preceding-sibling::capability)</code>
<code>xpath:@standardID</code>		<code>6</code>	<code>cap_type @xsi:type lowercase prfx-trnslt</code>
		<code>7</code>	<code>cap_description description</code>
	<code>VARCHAR</code>	<code>8</code>	<code>standard_id @standardID lowercase</code>
		<code>9</code>	-----
		<code>10</code>	<code>ivoid -> resource ivoid</code>



<http://cdsportal.u-strasbg.fr/taptuto/>

TAP Library *v2.0*

This Java library is a framework aiming to build quickly and easily a TAP service.

Getting started !

Download 

What is TAP ?

TAP is a protocol defined by the IVOA in the [Recommendation of 27 March 2010 \(Version 1.0\)](#) which lets access table data.

The standards [ADQL](#) and [UWS](#) are used in this protocol.

Remind me! 

Why this library?

In order to help Java developers to quickly build a TAP service with as less code writing as possible. A service built using this framework will be conform to the IVOA definition of the protocol TAP.

Functionalities:

- [Configuration file](#): a TAP service can be created with just a simple key-value configuration file...nothing else.

How to use it ?

- [Getting started](#): to start wil
- [Migration help](#): to migrate
- [Documentation](#): to have m fonctionnalités.

 The documentation is will be added piece by p



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The End.