

# RegTAP at ESAVO

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IVOA May 2016 Interop

- 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>



Cone Search

Window Columns Registry Interop Help

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

Keywords:  And

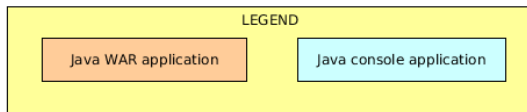
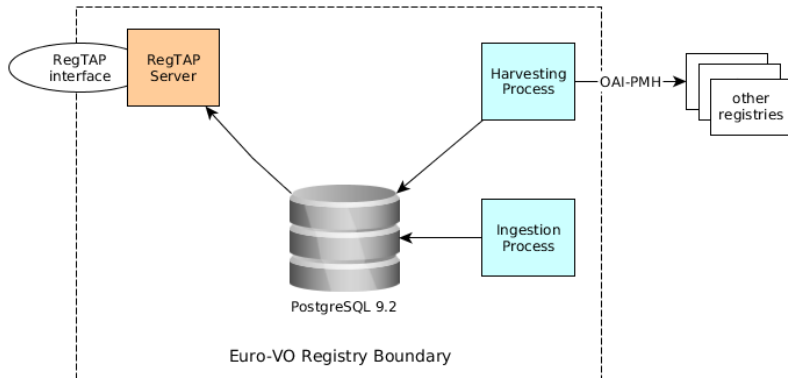
Match Fields:  Short Name  Title  Subjects  ID  Publisher  Description

Accept Resource Lists

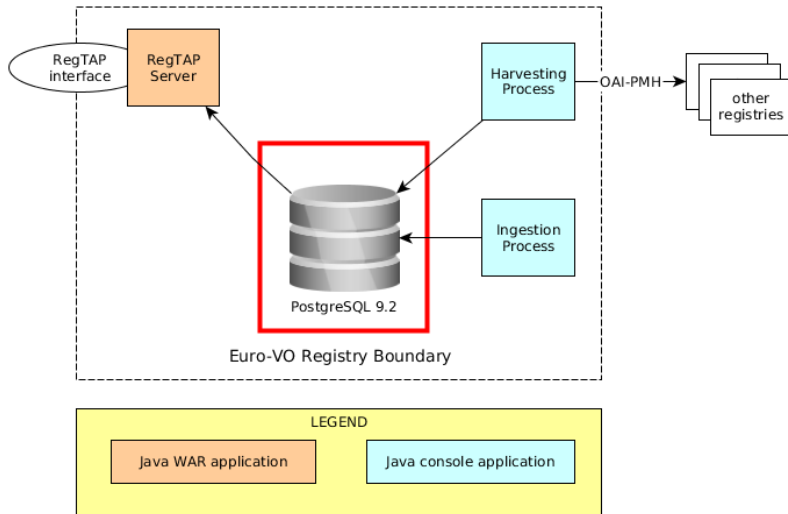
Short Name	Title	
3XMMe-CONESearch	3XMM Enhanced Catalogue	3XMM Er
ADS	Astrophysics Data System	Astronom
ALFALFA	Arecibo Legacy Fast ALFA Survey	ALFA, AL
Arches-Xmatch	Arches Cross-matched Catalogue	Xmatche
B/avo.rad	MERLIN+VLA Images of HDF/HFF sources (Muxlow+, 2003)	
B/bax	The BAX Database (Blanchard+, 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/evry	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>

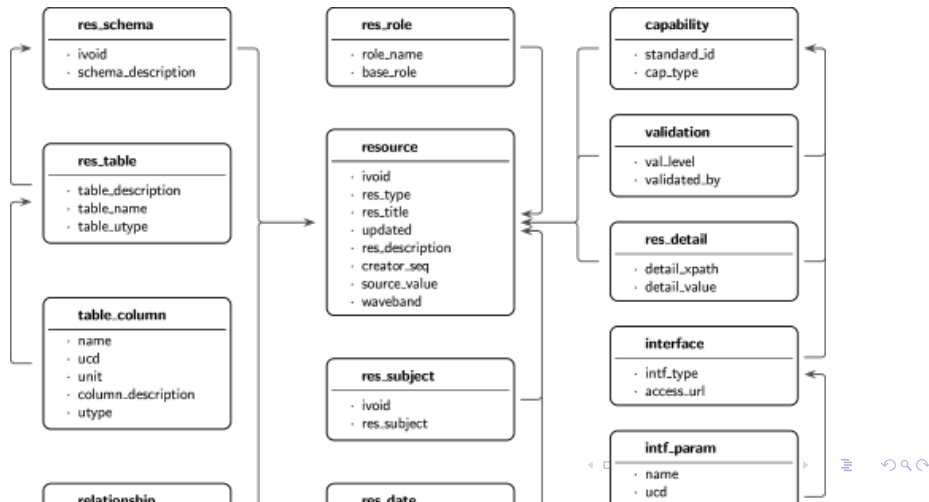
# RegTAP implementation at EuroVO



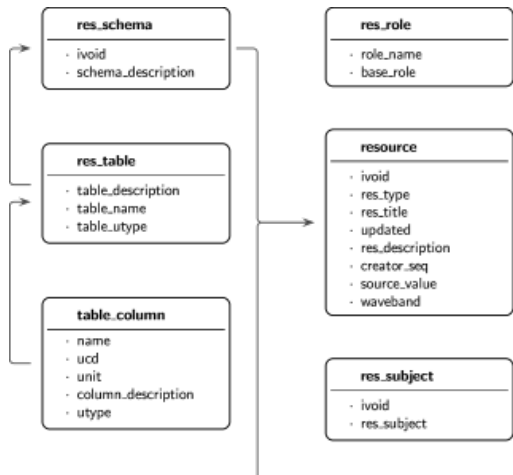
# RegTAP database schema



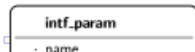
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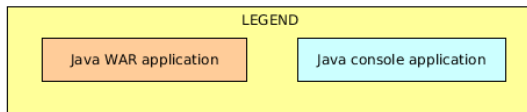
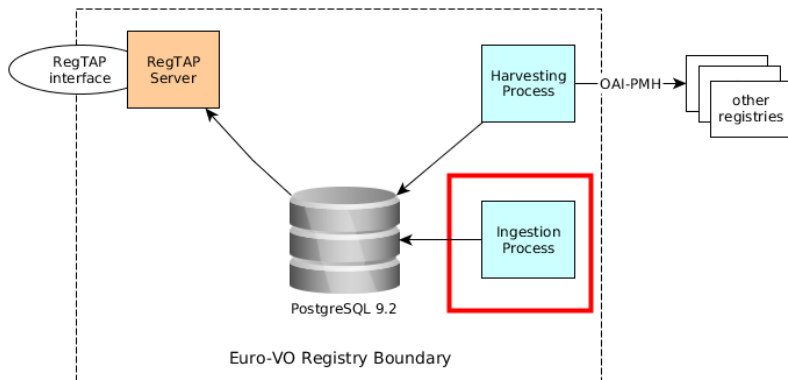
# RegTAP database schema



```
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

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

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<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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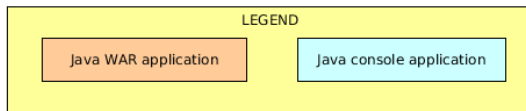
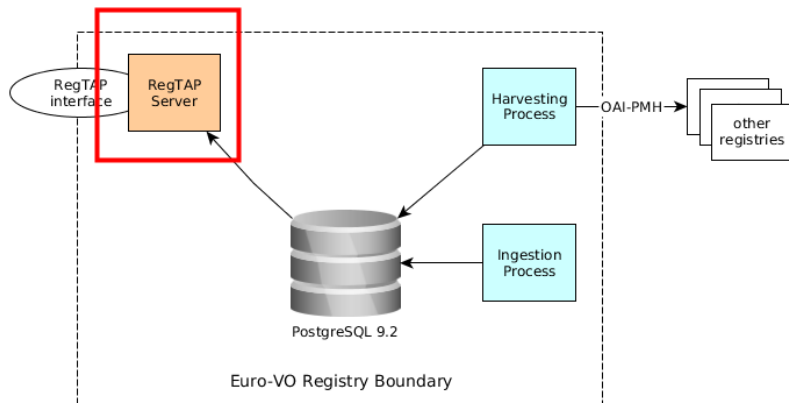
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<code>ivoid</code>	<code>VARCHAR(*)</code>	The parent resource.
<code>xpath:/identifier</code>		
<code>cap_index</code>	<code>SMALLINT(1)</code>	An arbitrary identifier of this capability within the resource.
<code>cap_type</code>	<code>VARCH</code>	
<code>xpath:@xsi:type</code>		
<code>cap_description</code>	<code>VARCH</code>	
<code>xpath:description</code>		
<code>standard_id</code>	<code>VARCH</code>	
<code>xpath:@standardID</code>		

1	<code>capability   ivoid cap_index</code>
2	-----
3	<code>/*/*capability</code>
4	<code>ivoid /*/*identifier lowercase</code>
5	<code>cap_index count(preceding-sibling::capability)</code>
6	<code>cap_type @xsi:type lowercase  prfx-trnslt</code>
7	<code>cap_description description</code>
8	<code>standard_id @standardID lowercase</code>
9	-----
10	<code>ivoid -&gt; 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.