

RegTAP at ESAVO

Menelaus Perdikeas¹

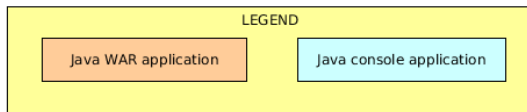
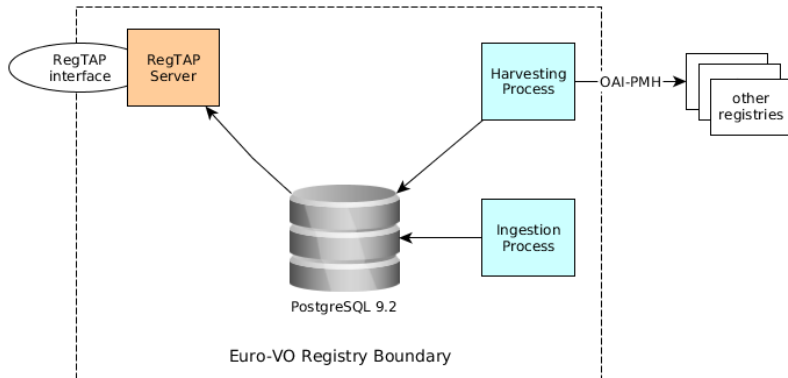
¹ESAC / Neuropublic

IVOA May 2016 Interop

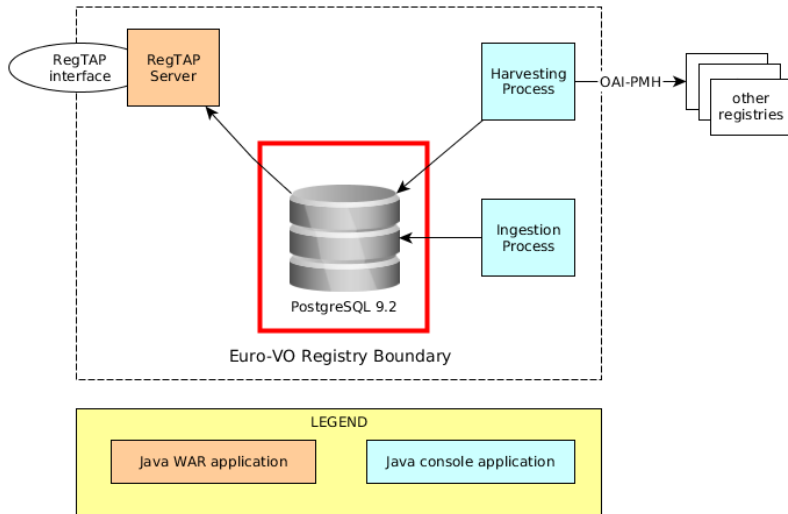
- a standardized relational view (subset) of an IVOA resource
- a way to execute ADQL queries on that relational view over HTTP POST
- recommendation

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

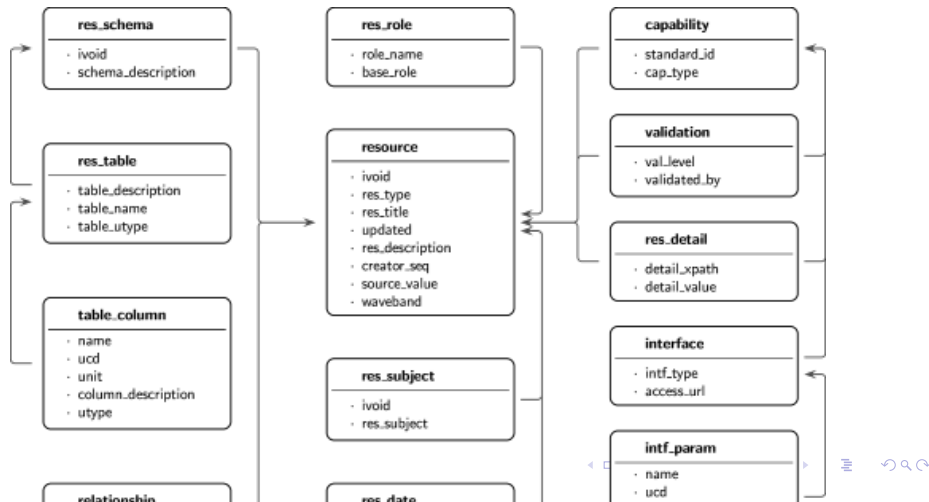
RegTAP implementation at EuroVO



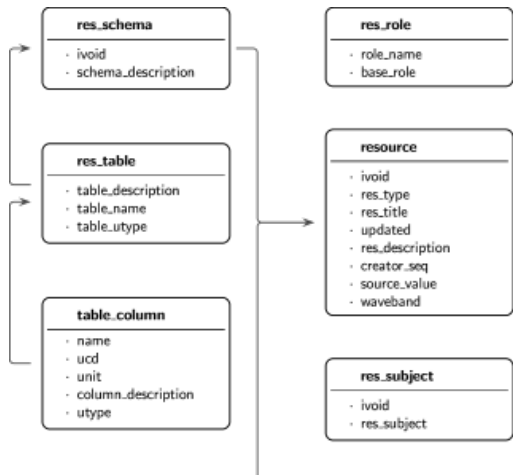
RegTAP database schema



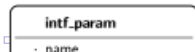
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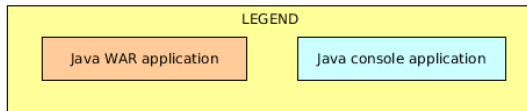
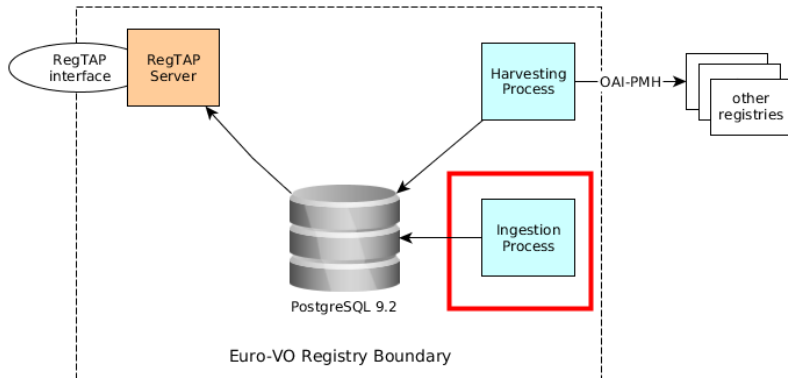
RegTAP database schema



```
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                      NULL
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.

8.4 The capability Table

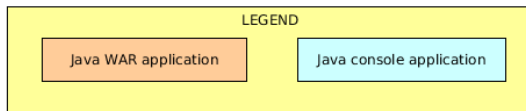
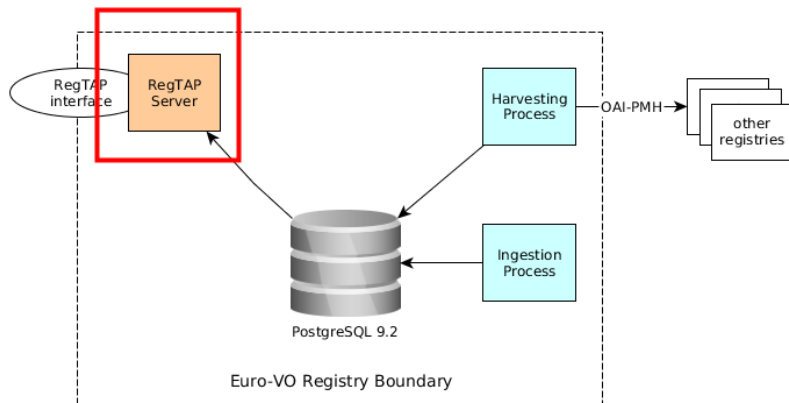
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<code>xpath:/identifier</code>		
<code>cap_index</code>	<code>SMALLINT(1)</code>	An arbitrary identifier of this capability within the resource.
<code>cap_type</code>	<code>VARCHAR</code>	<code>capability ivoid cap_index</code>
<code>xpath:@xsi:type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

		<code>10 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




Welcome to the new EURO-VO Full Harvestable VO Resource Registry.



The new Euro-VO Registry offers you the following main functionalities:




For astronomers and end users:

Search the VO resources through the Simple Search Panel, the Advanced Search or through the expert ADQL Search Panel (click on the  icon).




For data publishers:

Host your resources with EuroVO, create and update your own VO Resources via a password-protected interface, check their compliance with the associated IVOA standards (click on the  icon; requires an account: click to join).



For VO Applications developers and for other IVOA Registries:

Harvest the registry, retrieve individual resources, or search the registry through its programmatic [OAI-PMH](#), [R11](#) and [RegTAP](#) interfaces (click on the  icon to find more information).



If you have any question regarding the EURO-VO Registry, please send an email to:

esavo.registry@sclops.esa.int

The End.

Back-up slides