

# Service status and metric

<http://voparis-validation.obspm.fr/>

**Renaud Savalle  
Pierre Le Sidaner  
Observatoire de Paris**

# Context

- ❑ **What is the level of service compliance ?**
- ❑ **What is the evolution of quality assessment ?**
- ❑ **What level we want to reach ?**
- ❑ **What policy to clean service registry ?**
- ❑ **What method to use ?**
- ❑ **What effort we can put on and whom will make the job ?**
  
- ❑ **We want some element to start with this job.**

# Service status globally

- ◆ Go to <http://voparis-validation.obspm.fr/>
  - ◆ Click on registry-load under Programs
  - ◆ Select file to load (ex: results-cron-Astrogrid-SIA is the nightly results for Astrogrid, SIA)
  - ◆ Other options: use the defaults
- Click on Load and Display
- ◆ The statistics are displayed in text format

We generate the graphics using this information

This can also be useful to compare registries content

# Service status globally

## IVOA Services Validator: Results

Version 1.06

Questions, comments: [vo.paris@obspm.fr](mailto:vo.paris@obspm.fr)

Select file to load:	data/results-cron-Astrogrid-SIA.json <input type="button" value="Create new file"/>
Additional keyword: searched for in service id	<input type="text"/> Examples: obspm, stsci, esavo, gavo, VizieR...
Display:	<input type="checkbox"/> Display detailed results <input checked="" type="checkbox"/> Display statistics
Select Registry WSDL (for details):	NVO <input type="button" value="↓"/>
Select Registry endpoint (for details):	ESA <input type="button" value="↓"/>
Debug level:	0 <input type="button" value="↓"/>
<input type="button" value="Load and Display"/>	

### Results from file data/results-cron-Astrogrid-SIA.json

250 total service(s) found in file  
250 service(s) considered

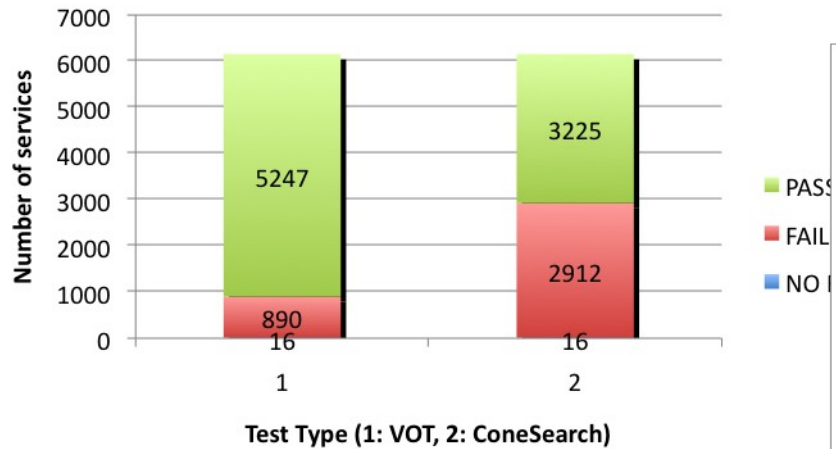
### Statistics from file data/results-cron-Astrogrid-SIA.json

Services tested: 182

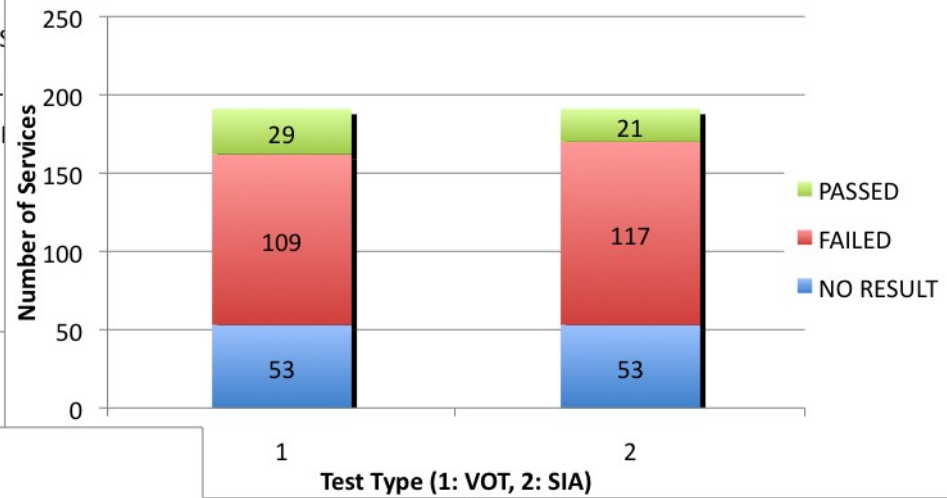
VOT - no results:	54 = 29.7 %	Spec - no results:	54 = 29.7 %
VOT - failed:	106 = 58.2 %	Spec - failed:	110 = 60.4 %
VOT - passed:	22 = 12.1 %	Spec - passed:	18 = 9.9 %

# Service status globally

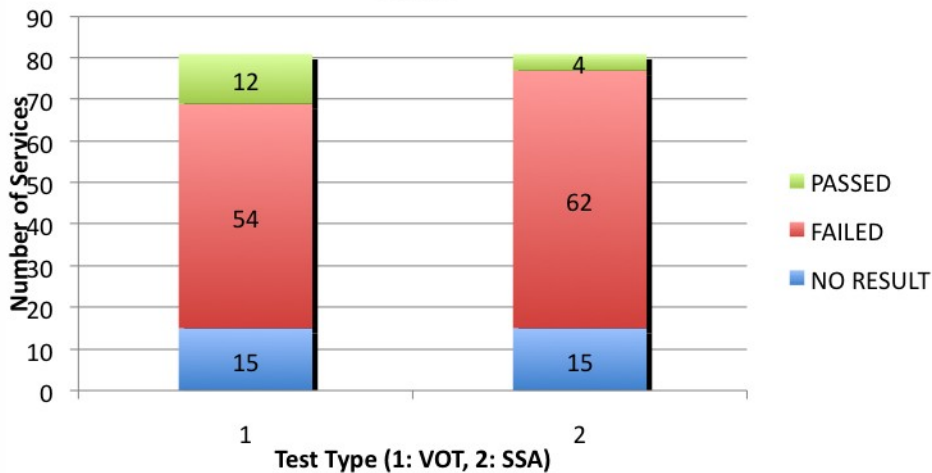
## ConeSearch



## SIA



## SSA



# Details on a web page

- ◆ Go to <http://voparis-validation.obspm.fr/>
- ◆ Click on registry-load under Programs
- ◆ Select file to load (ex: results-cron-Astrogrid-SIA is the nightly results for Astrogrid, SIA)
- ◆ Check the box Display detailed results
- ◆ Click on Load and Display

The detailed results are displayed with the colored widgets showing the validation issues

**The results shows valid services in green, invalid in red and also not responding in grey. The real added value is that there is a time in days since no change of this status is observed. This should be taken into account**

# Details on a web page

Select file to load:	data/results-cron-Astrogrid-SIA.json <a href="#">Create new file</a>
Additional keyword: searched for in service id	Examples: obspm, stsci, esa, gavo, Vizier...
Display:	<input type="checkbox"/> Display detailed results <input checked="" type="checkbox"/> Display statistics
Select Registry WSDL (for details):	NVO
Select Registry endpoint (for details):	ESA
Debug level:	0
<a href="#">Load and Display</a>	

## Results from file data/results-cron-Astrogrid-SIA.json

250 total service(s) found in file

IVOA Identifier	Title	Short Name	Contact Email	Service URL	Service Type	Spec	Validation results	Date	Unchanged for
<a href="#">ivo://esavo/xmm/siap</a>	The XMM-Newton Science Archive InterOperability System	XMM-Newton SIAP	esavo.helpdesk@sciops.esa.int	<a href="http://xsa.esac.esa.int:8080/aio/isp/siap.jsp? Validate Validate(batch)">http://xsa.esac.esa.int:8080/aio/isp/siap.jsp? Validate Validate(batch)</a>	vs.ParamHTTP	Simple Image Access	Simple VOTable Image Access 0 fatalities 14 warnings 0 errors	2011-10-11	13 days
<a href="#">ivo://esavo/iso/siap</a>	The ISO Data Archive InterOperability System	ISO SIAP	esavo.helpdesk@sciops.esa.int	<a href="http://archives.esac.esa.int/ida/aio/isp/siap.jsp?imageType=image Validate Validate(batch)">http://archives.esac.esa.int/ida/aio/isp/siap.jsp?imageType=image Validate Validate(batch)</a>	vs.ParamHTTP	Simple Image Access	Simple VOTable Image Access 0 fatalities 9 warnings 0 errors	2011-10-11	25 days
<a href="#">ivo://esavo/isda/siap</a>	The Integral Science Data Archive InterOperability System	Integral SIAP	esavo.helpdesk@sciops.esa.int	<a href="http://isda.esac.esa.int:8080/aio/isp/metadata.jsp?resource_class=ods Validate Validate(batch)">http://isda.esac.esa.int:8080/aio/isp/metadata.jsp?resource_class=ods Validate Validate(batch)</a>	vs.ParamHTTP	Simple Image Access	Simple VOTable Image Access 0 fatalities 0 warnings 0 errors	2011-10-11	46 days
<a href="#">ivo://xcatdb/2xmmi/epicsia</a>	Epic Image SIAP of the SSC Interface for the 2XMMi Catalogue	XCATDBI-SIA	laurent.michel@astro.u-strasbg.fr	<a href="http://xcatdb.u-strasbg.fr/2xmmi/sia?collection=[EPIC EpicObsImage ] Validate Validate(batch)">http://xcatdb.u-strasbg.fr/2xmmi/sia?collection=[EPIC EpicObsImage ] Validate Validate(batch)</a>	vs.ParamHTTP	Simple Image Access	Simple VOTable Image Access 1 fatalities 0 warnings 0 errors	2011-10-11	5 days
<a href="#">ivo://xcatdb/2xmmi/epicsia</a>	Epic Image SIAP of the SSC Interface for the 2XMMi Catalogue	XCATDBI-SIA	laurent.michel@astro.u-strasbg.fr	<a href="http://xcatdb.u-strasbg.fr/2xmmi/">http://xcatdb.u-strasbg.fr/2xmmi/</a>	vr.WebBrowser	Simple Image Access	Validation N/A	2011-10-11	0 days
<a href="#">ivo://nasa_heasarc/skyview/1420mhz</a>	Bonn 1420 MHz Survey	1420MHz	Skyview@skyview.gsfc.nasa.gov	<a href="http://skyview.gsfc.nasa.gov/cgi-bin/vo/sia.pl?survey=1420mhz&amp; Validate Validate(batch)">http://skyview.gsfc.nasa.gov/cgi-bin/vo/sia.pl?survey=1420mhz&amp; Validate Validate(batch)</a>	vs.ParamHTTP	Simple Image Access	Simple VOTable Image Access 0 fatalities 13 warnings 1 errors	2011-10-11	34 days
<a href="#">ivo://nasa_heasarc/skyview/1420mhz</a>	Bonn 1420 MHz Survey	1420MHz	Skyview@skyview.gsfc.nasa.gov	<a href="http://skyview.gsfc.nasa.gov/cgi-bin/query.pl">http://skyview.gsfc.nasa.gov/cgi-bin/query.pl</a>	vr.WebBrowser	undefined	Validation N/A	2011-10-11	0 days
<a href="#">ivo://nasa_heasarc/skyview/2mass</a>	Two Micron All Sky Survey (H-Band)	2MASS	Skyview@skyview.gsfc.nasa.gov	<a href="http://skyview.gsfc.nasa.gov/cgi-bin/vo/sia.pl?survey=2mass&amp; Validate Validate(batch)">http://skyview.gsfc.nasa.gov/cgi-bin/vo/sia.pl?survey=2mass&amp; Validate Validate(batch)</a>	vs.ParamHTTP	Simple Image Access	Simple VOTable Image Access 0 fatalities 13 warnings 1 errors	2011-10-11	4 days
<a href="#">ivo://nasa_heasarc/skyview/2mass</a>	Two Micron All Sky Survey (H-Band)	2MASS	Skyview@skyview.gsfc.nasa.gov	<a href="http://skyview.gsfc.nasa.gov/cgi-bin/query.pl">http://skyview.gsfc.nasa.gov/cgi-bin/query.pl</a>	vr.WebBrowser	undefined	Validation N/A	2011-10-11	0 days
<a href="#">ivo://nasa_heasarc/skyview/408mhz</a>	Hi All-Sky Continuum Survey	408MHz	Skyview@skyview.gsfc.nasa.gov	<a href="http://skyview.gsfc.nasa.gov/cgi-bin/vo/sia.pl?survey=408mhz&amp; Validate Validate(batch)">http://skyview.gsfc.nasa.gov/cgi-bin/vo/sia.pl?survey=408mhz&amp; Validate Validate(batch)</a>	vs.ParamHTTP	Simple Image Access	Simple VOTable Image Access 0 fatalities 13 warnings 1 errors	2011-10-11	34 days

# How to handle service validation

## Exporting result into SQLite

- ◆ **Go to <http://voparis-validation.obspm.fr/>**
- ◆ **Click on db-import under Programs**
- ◆ **Select file to load (ex: results-cron-Astrogrid-SIA is the nightly results for Astrogrid, SIA)**
- ◆ **Chose a name for the result file (ex: db/results-cron-Astrogrid-SIA.db)**
- ◆ **Choose a name for the db table (ex: registry)**
- ◆ **Click on Load and insert**
- ◆ **Download the generated file from <http://voparis-validation.obspm.fr/db/> to your computer**



# Play with SQLite3

## Open the database:

```
$ sqlite3 results-cron-Astrogrid-SIA.db
```

## Check the tables

```
sqlite> .tables
```

```
registry
```

## Display the table schema

```
sqlite> .schema registry
```

```
CREATE TABLE registry ( id text NOT NULL  
,url text NOT NULL ,title text ,short_name  
text ,contact_email text ,date text  
,xsi_type text ,spec text ,specv real  
NULL ,params text ,val_mode text  
,result_vot text ,result_spec text ,nb_warn  
int ,nb_err int ,nb_fatal int ,days_same  
int );
```

# Extract unavailable service

- ◆ **Execute a query: example – retrieve the IVOA identifiers, URLs of services, email, of services which have been down for more than a month:**

```
sqlite>
```

```
ivo://wfau.roe.ac.uk/sss-siap|
```

```
http://horus.roe.ac.uk:8080/ssa/SSS_SIAP|msh@roe.ac.uk|34
```

```
ivo://wfau.roe.ac.uk/ukidss-siap|
```

```
http://wfaudata.roe.ac.uk/ukidssdr1-siap/|msh@roe.ac.uk|46
```

```
ivo://wfau.roe.ac.uk/ukidssdr2-siap|
```

```
http://wfaudata.roe.ac.uk/ukidssdr2-siap/|msh@roe.ac.uk|46
```

```
ivo://jvo/irsf|h|N/A|46
```

```
...
```

- ◆ **To send the previous result to a file do**

```
.output file.txt
```

**Then re-issue the query as above. To return to screen output type:**

```
.output stdout
```

- ◆ **To quit sqlite type CONTROL-D**



# Extract unavailable service

**ivo://nrao.archive/vlba/vcs|**

**http://archive.nrao.edu/vo/SIA/query?archive=VCS&voserv@nrao.edu|40**

**ivo://nrao.archive/vlba/2cmVLBA|**

**http://archive.nrao.edu/vo/SIA/query?archive=2cmVLBA&voserv@nrao.edu|40**

**ivo://nrao.archive/vla/mitvla|**

**http://archive.nrao.edu/vo/SIA/query?archive=MITVLA&voserv@nrao.edu|40**

**ivo://nrao.archive/vla/nvas|**

**http://archive.nrao.edu/vo/SIA/query?archive=VLAPipeline&voserv@nrao.edu|40**

**ivo://nrao.archive/vla/nvss|**

**http://archive.nrao.edu/vo/SIA/query?archive=NVSS&voserv@nrao.edu|40**

**ivo://nrao.archive/vla/first|**

**http://archive.nrao.edu/vo/SIA/query?archive=FIRST&voserv@nrao.edu|40**

**ivo://wfau.roe.ac.uk/ukidssdr4-siap|**

**http://wfaudata.roe.ac.uk/ukidssdr4-siap/|msh@roe.ac.uk|40**

**ivo://wfau.roe.ac.uk/ukidssdr5-siap|**

**http://wfaudata.roe.ac.uk/ukidssdr5-siap/|msh@roe.ac.uk|40**

**ivo://vo.sim/Clusters|http://vo.sim.ul.pt:8080/Clusters|**