

Presentation VOParis

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Portail d'accès VO en WEB 2.0



VO-Paris Data Centre

About

The VO-Paris Data Centre project aims at providing VO access to its databases resources, at participating to international standards developments, at implementing VO compliant simulation codes, data visualization and analysis softwares.

[Learn more...](#)

Data Discovery Portal

The VO-Paris Data Centre Portal provides an easy way to access to all VO data available at Paris Observatory.

Getting Started

Use the query form on the right.



Query [advanced](#)

Target name or position *

 [?]

Search

Projects

WebSampConnector

A client toolkit that enables Web page based astronomy service to interoperate and communicate with VO softwares (no more save and load or cut and paste into the VO world!).

[WebSampConnector page...](#)

SDK PHP

An implementation of IVOA VOTable 1.1 and VOTable 1.x scheme in PHP. A partial implementation of RSS 2.0 schema is also provided.

[SDK page...](#)

Euro3D Client

An open-source Virtual Observatory tool which allows to deal with datasets in the Euro3D FITS format.

[Euro3D Client page...](#)

[Visit our projects page...](#)

□ Listes des services proposés

- SIA surveys ESO-R, SRC-J, DFBS, POSSE,
- SSA BaseBe, Fuse, HiGi, Giraffe, HESS, M4AST
- TAP Exoplanètes, Mars (Phobos), Titan (Cassini), Comètes Nançay
- CS Exoplanet, survey de Supernova dans les Galaxies,
- PDAP portail sur Mars (Phobos), Titan (Cassini), Comètes (NRT) + PDAP esac et PDAP JAXA.
- Google Sky pour les exoplanetes
- Astrogrid

□ En cours

- Installation d'un SIA sur Tarot
- Réplication des services
- Validateurs de services
- Europlanet (SSODNET + Client de lecture PDS avec SAMP + PDAP)
- VAMDC (Infrastructure, hepdesk, grille)
- Simulation
- Sampification du portail
- Refonte d'exoplanet sous Django

Services et
données

Conclusion

Data Discovery

Cone Search Services (scs)

✓ **Extrasolar Planets Encyclopaedia**

<http://voparis-srv.obspm.fr/srv/scs-exoplanet.php>

VO-compliant and interactive encyclopaedia of extrasolar planets.

[votable](#) [html](#)

✓ **Five Supernova Surveys Galaxies**

<http://voparis-srv.obspm.fr/srv/scs-fss.php>

VO-compliant publication of the properties of the 3838 galaxies that... [Read more](#)

[votable](#) [html](#)

Image Services (sia)

✓ **DFBS - Digitized First Byurakan Survey**

<http://voparis-srv.obspm.fr/srv/sia-dfbs.php>

The First Byurakan Survey (FBS) is the largest and the first... [Read more](#)

[votable](#) [html](#)

✓ **VOPSAT - ESO-R**

http://voparis-srv.obspm.fr/srv/sia-vopsat_esor.php

VO-compliant publication of Schmidt survey ESO-R of the southern sky... [Read more](#)

[votable](#) [html](#)

✓ **VOPSAT - POSS1-E**

http://voparis-srv.obspm.fr/srv/sia-vopsat_posse.php

VO-compliant publication of Schmidt survey POSS1-E of the southern... [Read more](#)

[votable](#) [html](#)

✓ **VOPSAT - SRC-J**

http://voparis-srv.obspm.fr/srv/sia-vopsat_srcj.php

VO-compliant publication of Schmidt survey SRC-J of the southern sky... [Read more](#)

[votable](#) [html](#)

Spectrum Services (ssa)

✓ **FUSE - Far Ultra Violet Spectroscopic Explorer**

<http://voparis-srv.obspm.fr/srv/ssa-fuse.php>

[votable](#) [html](#)

Request Summary

- Target: NGC4945
- Size: 1,1
- Time: 2455480.771122685

Query [advanced](#)

Target name or position *

[\[?\]](#)

Resource status

- ✓ Results found
- ✓ No results found
- ⚠ Resource error

VO Applications

Launch Java webstart applications

- [Aladin](#)
- [Topcat](#)
- [Splat](#)
- [VOSpec](#)

Data Discovery

Cone Search Services (scs)

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[votable](#) [html](#)

✓ **VOPSAT - POSS1-E**

http://voparis-srv.obspm.fr/srv/sia-vopsat_posse.php

VO-compliant publication of Schmidt survey POSS1-E of the southern... [Read more](#)

[votable](#) [html](#)

✓ **VOPSAT - SRC-J**

http://voparis-srv.obspm.fr/srv/sia-vopsat_srcj.php

VO-compliant publication of Schmidt survey SRC-J of the southern sky... [Read more](#)

[votable](#) [html](#)

<http://voparis-srv.obspm.fr/portal/voquery.php?target=mars&size=&time=&stdposition=225.272...>

✓ **FUSE - Far Ultra Violet Spectroscopic Explorer**

<http://voparis-srv.obspm.fr/srv/ssa-fuse.php>

[votable](#) [html](#)

Request Summary

- Target: mars
- Size: 1,1
- Time: 2455480.8017939813

Query basic

Target name or position *

[?]

Size (default value: 1° x 1°)

[?]

Band

[?]

Time (default value: now)

[?]

Resource status

- ✓ Results found
- ✓ No results found
- ⚠ Resource error

VO Applications

Launch Java webstart applications

1 error Erreur

Planetary Data

Planetary Data Services (pdap)

- ✓ **Planetary data from ESAC** votable
 http://psa.esac.esa.int:8000/aio/jsp/metadata.jsp
- ✓ **Planetary data from JAXA** votable
 http://darts.jaxa.jp/planet/pdap/0.3/php/index.php
- ✓ **Planetary data from Paris Observatory** votable html
 http://voparis-srv.obspm.fr/srv/pdap.php

Query basic

Target name *
 [\[?\]](#)

Target type *
 [\[?\]](#)

Resource class *
 [\[?\]](#)

Mission name
 [\[?\]](#)

Instrument name
 [\[?\]](#)

Longitude
 [\[?\]](#)

Latitude
 [\[?\]](#)

Start time
 [\[?\]](#)


Stop time
 [\[?\]](#)

Services et données

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Client SAMP pour lire des cubes PDS


<http://voplus.obspm.fr/samp/WebSampConnector+FITS/demo.html>




WebSampConnector+FITS Demonstrator

Demonstrator




 This is a demonstrator that shows the usage of the WebSampConnector and a FITS applet to load a data cube from this web page into a locally running Aladin, then load the individual spectra of the cube into SPLAT or VO-Spec by clicking on the pixels of the data cube.

 To run this demo you need to use Firefox and **Java 6**. If you need help setting up Java 6 see [the troubleshooting page](#)

 Note: This demo will use the following data cube: http://voplus.obspm.fr/samp/data/test_3d.fits

- Start the VO applications

Click on the above icons to start Aladin then SPLAT or VO-Spec:

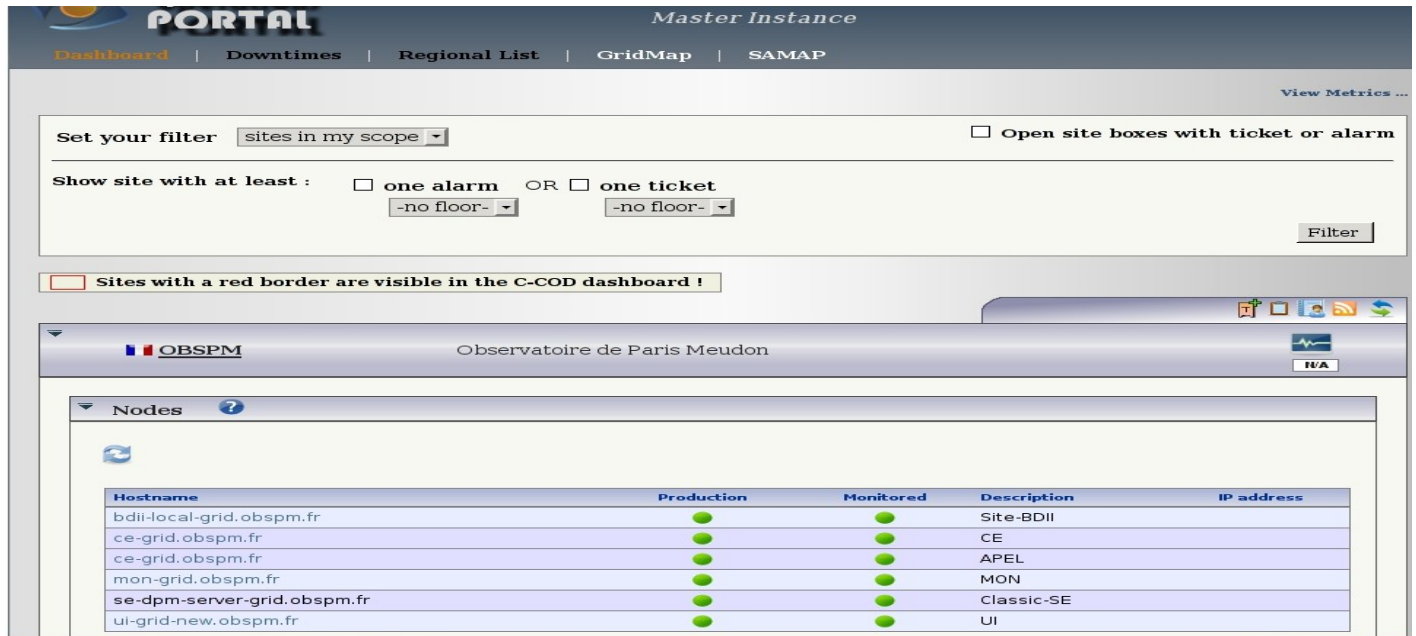
Aladin Java: 
SPLAT: 
VO-Spec: 
- Check that the Aladin SAMP hub is started (antenna on the bottom right). If not start the Aladin HUB in menu Interop/Connect with SAMP
- When the above point is complete you can now:

[Start the WebSampConnector which will connect to the Samp hub](#)

[Stop WebSampConnector and terminates the connection to the Samp hub](#)

Grille

200 Coeurs dans le noeud Obs



PORTAL Master Instance
 Dashboard | Downtimes | Regional List | GridMap | SAMAP

Set your filter: Open site boxes with ticket or alarm

Show site with at least : one alarm OR one ticket

Sites with a red border are visible in the C-COD dashboard !

OBSPM Observatoire de Paris Meudon

Nodes

Hostname	Production	Monitored	Description	IP address
bdii-local-grid.obspm.fr	●	●	Site-BDII	
ce-grid.obspm.fr	●	●	CE	
ce-grid.obspm.fr	●	●	APEL	
mon-grid.obspm.fr	●	●	MON	
se-dpm-server-grid.obspm.fr	●	●	Classic-SE	
ui-grid-new.obspm.fr	●	●	UI	

Services et données

Conclusion

□ VO-Paris en charge de la WP5 – SA2

Travail d'infrastructure :

- Monitoring
- Réplication et qualité de service
- Portail Grille EGEE
- Perennisation
- Hébergement et maintenance d'outils de communication.
- Mise en place d'un Help Desk

Services et
données

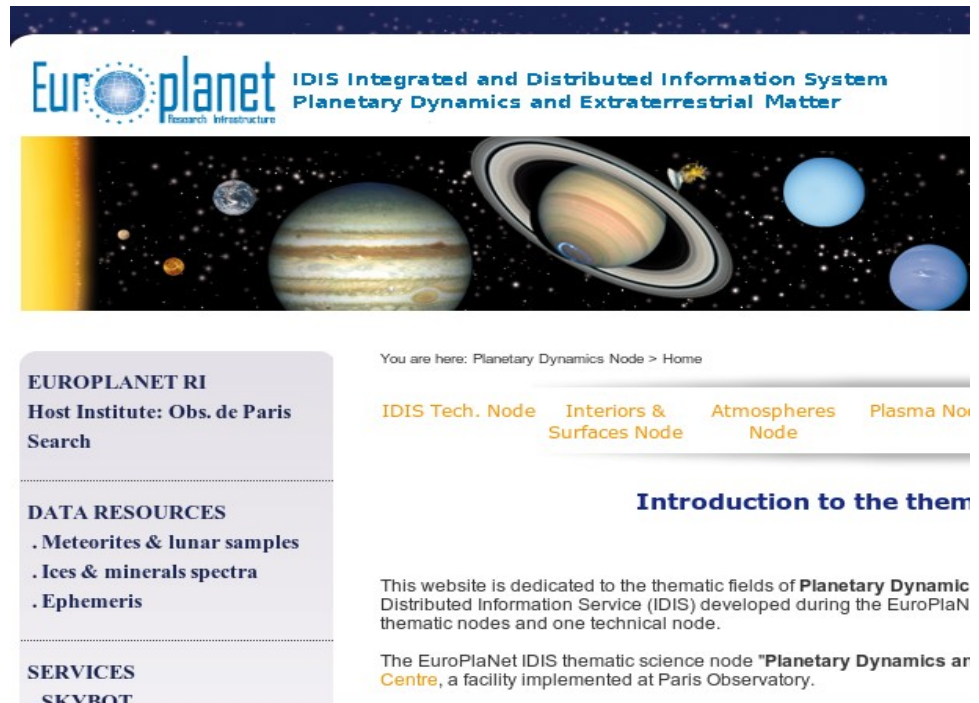
Conclusion

VO-Paris participe JRA4 – SA IDIS

- Implementation de la version 1.0 de PDAP et évolution avec le CDPP.
- Ecriture avec le CDPP de IDIS-TAP dérivé de ObsTap
- Convergence IVOA et EPN

Services et données

Conclusion



Europlanet IDIS Integrated and Distributed Information System
 Planetary Dynamics and Extraterrestrial Matter
Research Infrastructure

You are here: Planetary Dynamics Node > Home

[IDIS Tech. Node](#)
[Interiors & Surfaces Node](#)
[Atmospheres Node](#)
[Plasma Node](#)

Introduction to the theme

This website is dedicated to the thematic fields of **Planetary Dynamic Distributed Information Service (IDIS)** developed during the EuroPlaNet thematic nodes and one technical node.

The EuroPlaNet IDIS thematic science node "**Planetary Dynamics at Centre**", a facility implemented at Paris Observatory.

EUROPLANET RI
 Host Institute: Obs. de Paris
 Search

DATA RESOURCES
 . Meteorites & lunar samples
 . Ices & minerals spectra
 . Ephemeris

SERVICES
 SKYBOT

□ Multiples proposition de modification de UWS

- Propositions d'amélioration sur les ambiguïtés du protocole
- Proposition de simplification du protocole (non retenues)
- Réécriture des schemas et des dialogues client serveur

- Proposition de standardiser la description de service à travers UWS

- Implementation de prototypes qui fonctionnent
- Partie serveur les programme tournent sur le cluster (torque-Maui) avec une interface UWS.
- Partie cliente lit le WADL et crée à la volée une interface pour interoger le service, suivre son déroulement et récupérer ses résultats

Services et
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Client (Régis + Jonathan)

Service donné

Conclusion

The screenshot displays a web-based interface for an astrometry tool. The main window, titled "lesidaner@portal Astrometric tool box", has a "Configuration Services" tab. It features a table with columns for "Service", "Job", and "Status". Below the table are input fields for "Service:", "Id:", "Phase:", "Start time:", "End time:", and "Duration time:". A "Samp" button is located at the bottom left of this section.

An "Ouvrir" (Open) dialog box is overlaid on the main window, showing a file explorer view. The search path is "image". Two files are listed: "cutout_ESO219R.fits" and "image2.fits", with "image2.fits" selected. The "Nom de fichier" (File name) field contains "image2.fits" and the "Fichiers du type" (File type) dropdown is set to "Tous les fichiers". "Ouvrir" and "Annuler" buttons are at the bottom right of the dialog.

A second dialog box, titled "astrometry", is also visible. It contains input fields for "image" (with a "Browse" button), "cat" (with radio buttons for "2" and "1", where "1" is selected), and "order" (with the value "3"). "Create" and "Joblist" buttons are at the bottom.

(*) spectrum

type: POLLUX FOURMOST

seed:

noise:

observableMode: NONE USER

bandType:

magnitude:

av:

vrad:

vsini:

dibQuality: PROBABLE CONFIRMED ALL

instrumentMode:

resolution:

signalToNoise:

exposureTime:

atmosphereMode: FOURMOST NONE USER

(*) airmass

(*) dayFromNewMoon

(*) seeing

ASC 13

Service	Job	Status
astrometry	1dad2853-d138-f7a4-399e-0be1537b21dc	COMPLETED
astrometry	ea6aa261-3311-6464-7522-1318170b9c8c	COMPLETED
astrocheck	c459c5c4-e2fa-c134-0553-067f71c7fc83	COMPLETED

Delete

Service: astrocheck
Id: c459c5c4-e2fa-c134-0553-067f71c7fc83
Phase: COMPLETED
Start time: 2012-01-16T07:21:31Z
End time: 2012-01-16T07:21:52Z
Duration time: 2012-01-23T07:21:30Z

Parameters
 FITS image
 cat: 1

Results
 XML 0
 PNG 1

ICRS MADIT

SAMP~1
 SAMP
 SAMP

Zoom 1x

1' 9.656' x 7.44' N
 grille nord multivues unit. E

Chercher

18.16' x 18.16'

□ Participation au groupe Registry

- Proposition d'amélioration de contenu.
- Développement d'un validateur de service
<http://voparis-validator.obspm.fr/>
 - VOTABLE, SSA, SIA, PDAP (ancienne version), CS
- Développement d'une métrique de l'état de validité des service VO.
 - Voparis-validation.obspm.fr
- Procédure de relance pour les services qui ne répondent pas

Services et
données

Conclusion

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 tis information

This can also be useful to compare registries content

IVOA Services Validator: Results

Version 1.06

Questions, comments: 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

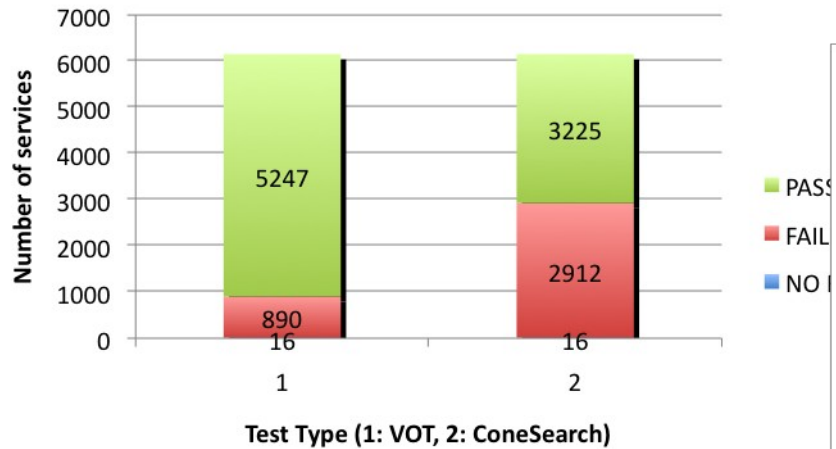
Statistics from file data/results-cron-Astrogrid-SIA.json

Services tested: 182

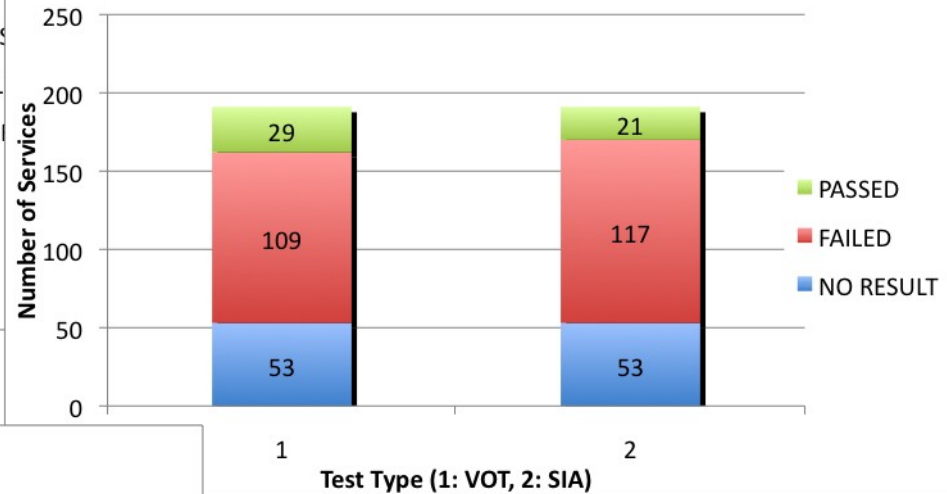
VOT - no results:	54 = 29.7 %	Spec - no results:	54 = 29.7 %
VOT - failed:	106 = 58.2 %	Spec - failed:	110 = 60.4 %
VOT - passed:	22 = 12.1 %	Spec - passed:	18 = 9.9 %

Service status globally

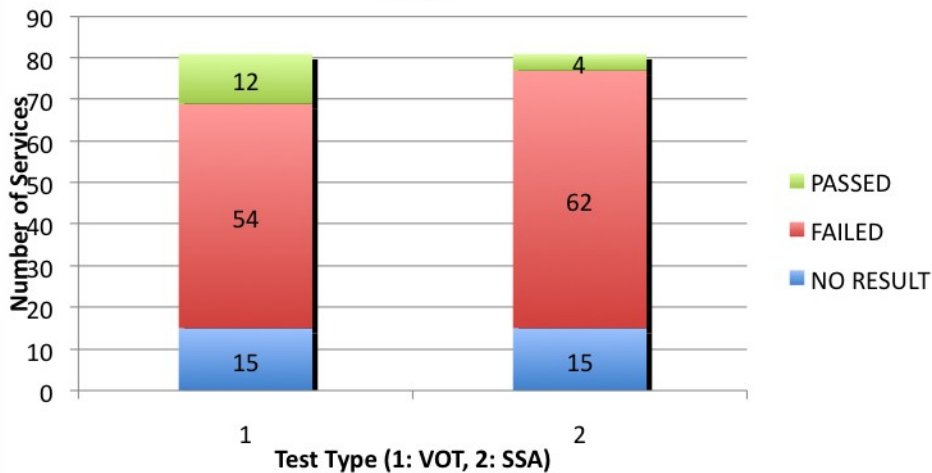
ConeSearch



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



IVOA Services Validator: Results

Version 1.06
Questions, comments: vo_paris@obspm.fr

Select file to load:	data/results-cron-Astrogrid-SIA.json Create new file
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
Load and Display	

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

Conclusion

□ En cours

- Nouveaux services
- Evolution du portail
- Implication dans Europlanet et VAMDC
- Développements de UWC
- Implication dans les registries
- Implication : Archivage pour pérennisation