

SSHAE-VO

Virtual Observatory

- International Virtual Observatory Alliance (IVOA)
 - « The Virtual Observatory (VO) is the vision that astronomical datasets and other resources should work as a seamless whole. Many projects and data centres worldwide are working towards this goal. The International Virtual Observatory Alliance (IVOA) is an organisation that debates and agrees the technical standards that are needed to make the VO possible. It also acts as a focus for VO aspirations, a framework for discussing and sharing VO ideas and technology, and body for promoting and publicising the VO. »

Implementation

- OSUG-VO : Observatory mutualized VO API
 - Gavo DaCHS, TapLib, ...
 - Data synchronization with various services
- SSHADE-VO
 - EuroPlanet specific epntap2 , generic TAP , ...

Gavo DaCHQ q.rd

```
<sources>data/spectrodb_ex.csv</sources>
<csvGrammar>
  <rowfilter procDef="//products#define">
    <bind name="table">"\schema.epn_core"</bind>
  </rowfilter>
</csvGrammar>
<make table="epn_core">
  <rowmaker idmaps="*">
    <var key="granule_uid" source="product_id" />
    <var key="granule_gid" source="data_set_id" />
    <var key="obs_id" source="product_id" />

    <var key="dataprodukt_type">"sp"</var>
    <var key="measurement_type">"phys.ref" </var>

    <var key="target_name" source="specimen_name" />
    <var key="target_class">"sample"</var>

    <var key="spectral_range_min" source="minimum_sampling_parameter" />
    <var key="spectral_range_max" source="maximum_sampling_parameter" />
    <var key="spectral_sampling_step_min" source="min_sampling_interval" />
    <var key="spectral_sampling_step_max" source="max_sampling_interval" />
    <var key="spectral_resolution_min" source="measurement_min_resolution" />
    <var key="spectral_resolution_max" source="measurement_max_resolution" />

    <var key="spatial_frame_type">"body"</var>

    <var key="incidence_min" source="incidence_angle" />
    <var key="incidence_max" source="incidence_angle" />
    <var key="emergence_min" source="emission_angle" />
    <var key="emergence_max" source="emission_angle" />
    <var key="phase_min" source="phase_angle" />
    <var key="phase_max" source="phase_angle" />

    <var key="azimuth_min" source="azimuth" />
    <var key="azimuth_max" source="azimuth" />

    <var key="instrument_host_name" source="instrument_host_name" />
    <var key="instrument_name" source="instrument_id" />

    <var key="service_title">"pds_speclib" </var>
    <var key="creation_date" source="product_creation_time" />
    <var key="modification_date" source="product_creation_time" />
    <var key="release_date">"2006-03-10T00:00:00.00" </var>
    <var key="bib_reference" source="reference_key_id"/>
    <var key="access_estsize" source="filesize" />
```

OpenAPI3 (ex. Swagger) Specifications

API

service : Service management

Show/Hide | List Operations | Expand Operations

services : Services list

Show/Hide | List Operations | Expand Operations

user : User management

Show/Hide | List Operations | Expand Operations

DELETE /user/ DELETE user

GET /user/ GET user

POST /user/ POST user

Parameters

Parameter	Value	Description	Parameter Type	Data Type
auth-id	<input type="text" value="(required)"/>	Authentication ID	header	string
auth-key	<input type="text" value="(required)"/>	Authentication Key	header	string
password	<input type="text"/>	SHA-256 Password hash	query	string
email	<input type="text" value="(required)"/>	Email address	query	string
username	<input type="text" value="(required)"/>	Username	query	integer
	<input type="text"/>		query	string
role	<input type="text" value="v"/>	ACL Role	query	string
name	<input type="text" value="(required)"/>	User full name	query	integer
password_raw	<input type="text"/>	Raw password	query	string

Response Messages

HTTP Status Code	Reason	Response Model	Headers
200	Success		
403	Authentication error / ACL error		

Try it out!



Results in service spectro_planets

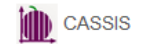
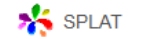
Show entries

granule_uid	dataproduct_type	target_name	time_min (d)	time_max (d)	access_url
Uranus_low_vot	spectrum	Uranus	1995-07-06T00:00:00.000	1995-07-06T00:00:00.000	http://voparis-srv.o...
Uranus_low_pds	spectrum	Uranus	1995-07-06T00:00:00.000	1995-07-06T00:00:00.000	http://atmos.nmsu.ed...
Uranus_hi_vot	spectrum	Uranus	1995-07-06T00:00:00.000	1995-07-06T00:00:00.000	http://voparis-srv.o...
Uranus_hi_pds	spectrum	Uranus	1995-07-06T00:00:00.000	1995-07-06T00:00:00.000	http://atmos.nmsu.ed...
Titan_low_vot	spectrum	Titan	1995-07-06T00:00:00.000	1995-07-06T00:00:00.000	http://voparis-srv.o...
Titan_low_pds	spectrum	Titan	1995-07-06T00:00:00.000	1995-07-06T00:00:00.000	http://atmos.nmsu.ed...
thuilier_vot	spectrum	Sun	2003-01-01T00:00:00.000	2003-01-01T00:00:00.000	http://voparis-srv.o...
thuilier_ori	spectrum	Sun	2003-01-01T00:00:00.000	2003-01-01T00:00:00.000
tapas_000001_4040_vot	spectrum	Earth	2017-08-25T00:00:00.000	2017-08-25T00:00:00.000	http://voparis-srv.o...
saturn_ring_vot	spectrum	Saturn	1976-04-21T00:00:00.000	1976-04-21T00:00:00.000	http://voparis-srv.o...

Showing 1 to 10 of 134 entries

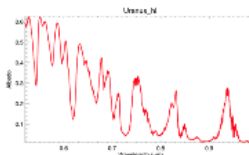
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Plotting tools



Example queries

Saturn in March 2012



Help

Service info

Metadata

Identifier

ivo://x-unregistered/dev_osu

Cite this

[Advice on citing this resou](#)

Description

SSHADE.

Keywords

Catalogs

Creator

Schmitt, B.

Created

2017-01-12T10:00:00

Data updated

2017-11-29

Source

2001VeARI..40....1W; http://

Reference URL

[Service info](#)

[Try ADQL](#) to query our data.

Result

Matched: 2

Send via SAMP

Quick Plot

Uid	Acronym	Name
DB_GHOSST	GhoSST	Grenoble Astrophysics and Planetology Solid Spectroscopy and Thermodynamics
DB_SSHADE	SSHADE	Solid Spectroscopy Hosting Architecture of Databases and Expertise

Query Form

For advanced queries on this catalogue use [ADQL](#) possibly via [TAP](#)

Acronym

GhoSST

SSHADE

Acronym.

Uid

[\[?char expr.\]](#)

Unique-id.

Table

Sort by

Limit to items.

Output format