

Rest Registry Interface VO-Paris

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➤ Methods search

— Parameters

- **Keywords:** required URL-encoded string
- **orValues:** To combine multiple constraints with a logical OR
- **From:** The minimum position in the complete list of matching resources
- **max:** The maximum number of resources to return
- **identifiersOnly:** To return only resource identifiers.

The keywords syntax is similar to Lucene search syntax.

```
keywords=infrared
```

Return VOResource where infrared present in relevant field

```
keywords=standardid:"ivo://ivoa.net/std/ConeSearch"  
waveband=infrared
```

Return infrared ConeSearch

By default it's a logical and, orValue can be used

```
keywords=waveband=infrared description:HST&orValues
```

Adding identifiersOnly as a flag give ID only

```
keywords=infrared & identifiersOnly
```

From and max are necessary with 13000 resources

```
keywords=standardid:"ivo://ivoa.net/std/ConeSearch"&  
max=10&from=50
```

vresource & identity

Give back the VOResource from the identifiersOnly

vresources?identifier=ivo://vopdc/registry

Identity retrieves the full description of the registry itself.

identity

To be discuss and extend

Focus of search operation: (All theses fields can be put in the query)

- **subjects**
- **title**
- **shortname**
- **description**
- **type**
- **referenceurl**
- **publisher**
- **contactname**
- **capabilities[accessurl, standardid]**
- **identifier**
- **registryid**
- **updated**
- **created**
- **status**

NB: Even if capability is a table, a search can be done on that field

To be discuss

capability : new endpoint to give access to discover optional informations

provenance : give the ivoid of the registry where the resource is registered
keywords=provenance:ivo://vopdc/registry

updated : field allows to get all resources updated since a given date
keywords=updated:[2013 TO *]

Coverage : The registry should contain MOC information (MOC URL ?) and a separate service can handle MOC cross correlation.

➔ **Possible output.**

XML For compatibility XML using previous RegistryInterface schema

Subset of mandatory relevant fields in VOTable/JSON :

title:

identifier:

accessURL:

capabilityClass: (multi output possible)

shortName:

description:

referenceURL:

➤ Possible output.

XML For compatibility XML using previous RegistryInterface schema

Subset of relevant fields in :

VOTable

JSON

Choice of output format can be done :

- RESTFull aproach would be to specify output format in html header

- format can be a search extention

Ex : /voresources/search.xml?.. for xml or

/voresources/search.json?... for du JSON

- less REST and more DALI /voresources/search?...&format=JSON

➔ Possible output.

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Ex : /voresources/search.xml?.. for xml or
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- less REST and more DALI /voresources/search?...&format=JSON

Examples to play

[voparis-registry.obspm.fr/ivoa/1/voresources/
search?keywords=infrared](http://voparis-registry.obspm.fr/ivoa/1/voresources/search?keywords=infrared)

[http://voparis-registry.obspm.fr/ivoa/1/voresources/search?
keywords=standardid:%22ivo://ivoa.net/std/ConeSearch%22%20
waveband:infrared](http://voparis-registry.obspm.fr/ivoa/1/voresources/search?keywords=standardid:%22ivo://ivoa.net/std/ConeSearch%22%20waveband:infrared)

[http://voparis-registry.obspm.fr/ivoa/1/voresources/search?
keywords=updated:\[2013 TO *\]&max=20](http://voparis-registry.obspm.fr/ivoa/1/voresources/search?keywords=updated:[2013 TO *]&max=20)