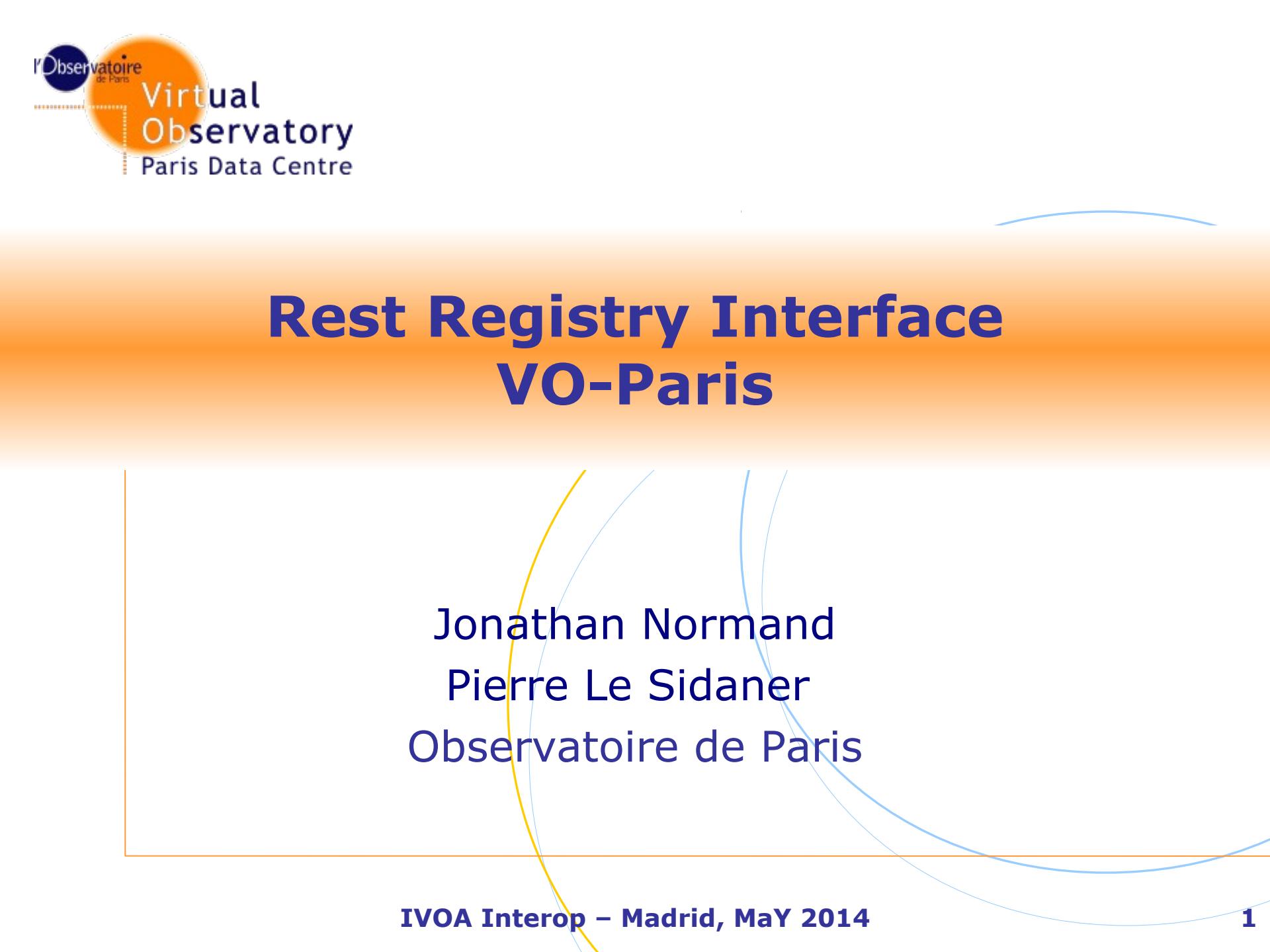


Rest Registry Interface VO-Paris



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Purpose

Rest interface dedicated to service in web pages or simple queries

When you want to find services on simple condition

When VOTable parser are not “ready made”

When you want easily convert ivo in access_url

For accessing TAP services related to a specific DM

KISS concept

...

**Rest registry can do quite all requirement, limitation
are almost the relations inter resources not handled and
spacial coverage (may be answered by MOC)**

Basic of Rest Registry

□ Intuitive Search method

Example 1: To search all resources containing the keyword “infrared”:

<http://voparis-registry.obspm.fr/vo/ivoa/1/voresources/search?keywords=infrared>

Then you interested in images

Example 2: A combination of search keyword can be used, then they must be space-separated: this query:

[http://voparis-registry.obspm.fr/vo/ivoa/1/voresources/search?keywords="infrared" "ivo://ivoa.net/std/SIA"](http://voparis-registry.obspm.fr/vo/ivoa/1/voresources/search?keywords=)

Getting original xml file

Access to the full VOResource

The end point called “voresources.xml” provides access to the full VOResource in original format (xml) using the key entry for a resource, its ivo ID. Example:

[http://voparis-registry.obspm.fr/vo/ivoa/1/voresources.xml?identifier
=ivo://vopdc.obspm/luth/exoplanet](http://voparis-registry.obspm.fr/vo/ivoa/1/voresources.xml?identifier=ivo://vopdc.obspm/luth/exoplanet)

information about the registry itself

According to previous version of the registry the “identity” end point provides metadata of the registry itself: publisher, updated, title, contact mail, capabilities, etc. Example:

<http://voparis-registry.obspm.fr/vo/ivoa/1/identity>

“Extra feature”

- ◆ **Extra search method: possibility to restrict search on specific field.**

`http://voparis-registry.obspm.fr/vo/ivoa/1/voresources/search?
keywords=standardid:"ivo://ivoa.net/std/ConeSearch" publisher:"cds"
contentlevel:"Research"`

will return all cone search services published by CDS with contentlevel containing “Research”.

- ◆ **Extra search method: Pagination**

The previous query is supposed to return more than 8000 resources, so a pagination mechanism can be necessary to fix the maximum number of resources returned, from a given index of the first resource returned. Example:

`http://voparis-registry.obspm.fr/vo/ivoa/1/voresources/search?keywords=standardid
:"ivo://ivoa.net/std/ConeSearch" publisher:"cds"
contentlevel:"Research"&max=100&from=200`

“Extra feature”

♦ Extra search method: “orValues”

This method specifies to use a logical OR (instead of a AND) in the combination of filters. Example:

`http://voparis-registry.obspm.fr/vo/ivoa/1/voresources/search?keywords=standardid%3D%22ivo://ivoa.net/std/ConeSearch%22&publisher%3D%22cds%22&contentlevel%3D%22Research%22&orValues`

Query return

If the query is successful the service will return an array called “resources” of resources matching the query. Before the array, a set of fields describing the array is returned:

total : number of VOResources that match

numberReturned : number of VOResources returned

From : if pagination is used, start resource, by default 1

Query return

status	by default only active VOResources are returned
publisher and contributor	these two fields allow to give back credit
description, title, subjects, waveband	description of the resource
referenceurl	explanation of the VOResource
accessurl, standardid, version	access url and VO capabilities
shortname, identifier, type	other information
validationLevel	value characterizing service compliance

Rest description

<http://api.voparis-tmp.obspm.fr/registry/>