# Shibboleth and OpenID at VOPDC

#### Mathieu Servillat, Pierre Le Sidaner

**Observatoire de Paris VO-Paris Data Center** 



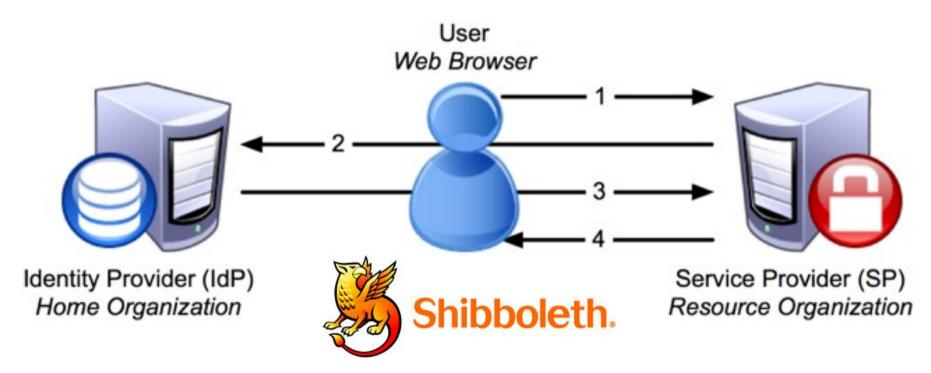


Laboratoire Univers et Théories

Mathieu Servillat (Obs Paris)

**SSO at VOPDC** 

#### Single Sign-On with Identity Federations

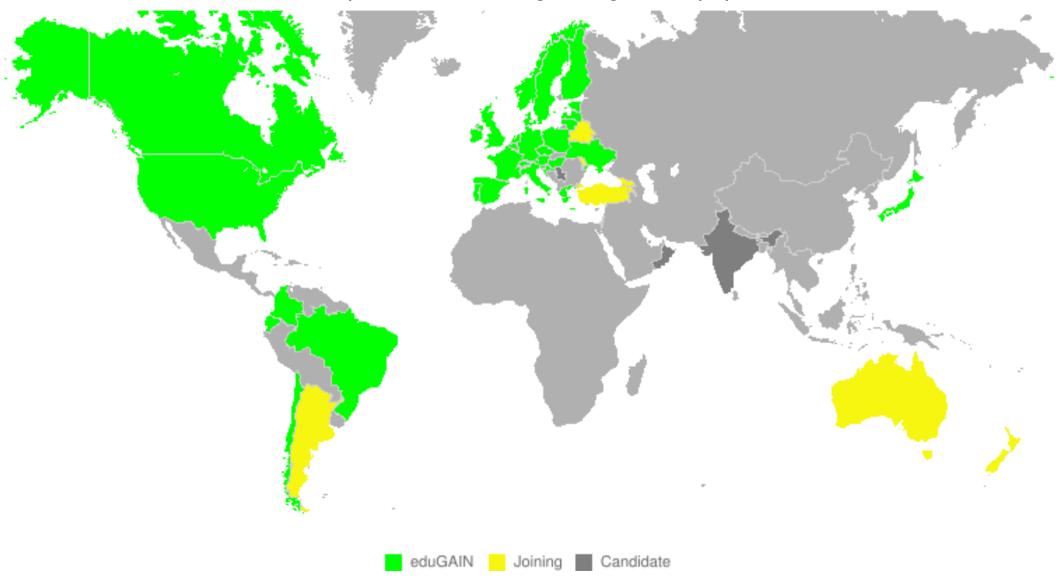


- Shibboleth 2 = implementation of SAML2 for SSO Authentication
- eduGAIN : Identity Federation (RENATER, ...)
  - Tested using Apache2 / mod\_shib + mod\_ssl + django-shibboleth-remoteuser
  - WAYF (Where are You From) additional step to locate your IdP
  - Dedicated to research community
  - Dedicated to web authentication
  - Need to register the service in eduGAIN (with a x509 certificate)

**SSO at VOPDC** 

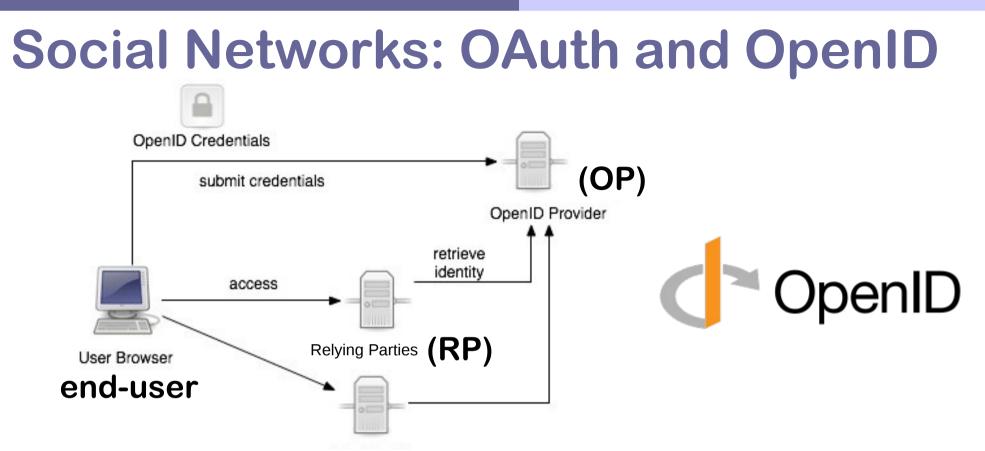
### eduGAIN status

https://technical.edugain.org/status.php

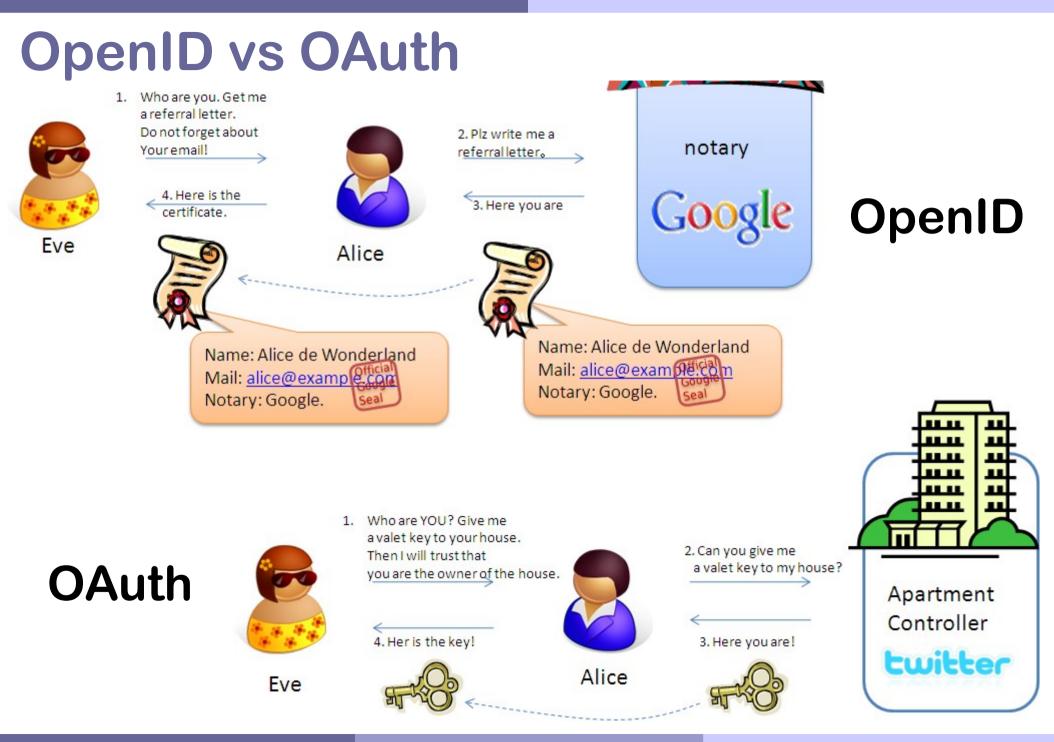


Mathieu Servillat (Obs Paris)

SSO at VOPDC



- OpenID is a way to use a single set of user credentials to access multiple sites
  - Tested using Django + django-openid-auth
- OAuth 2 is an authorization framework usable for authentication
  - Tested using Django + python-social-auth
  - Need to register the service at OpenID Provider
- OpenID Connect (replacing OpenID) sits on top of the OAuth 2.0 framework
  - WebFinger : automatically finds your OP



Mathieu Servillat (Obs Paris)

**SSO at VOPDC** 

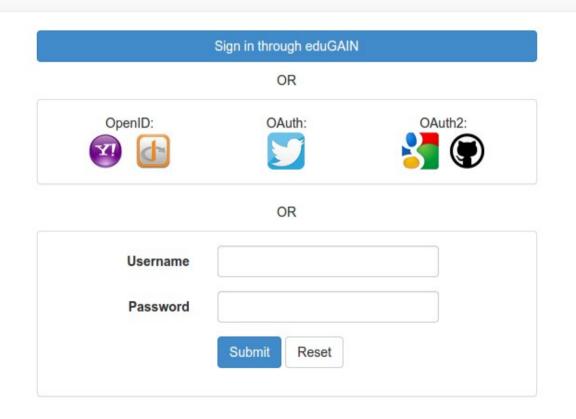
## **Testing SSO for CTA Data Access**

#### (Cherenkov Telescope Array)



CTA Data Distiller Q Search Form

**1** Sign in



Mathieu Servillat (Obs Paris)

**SSO at VOPDC** 

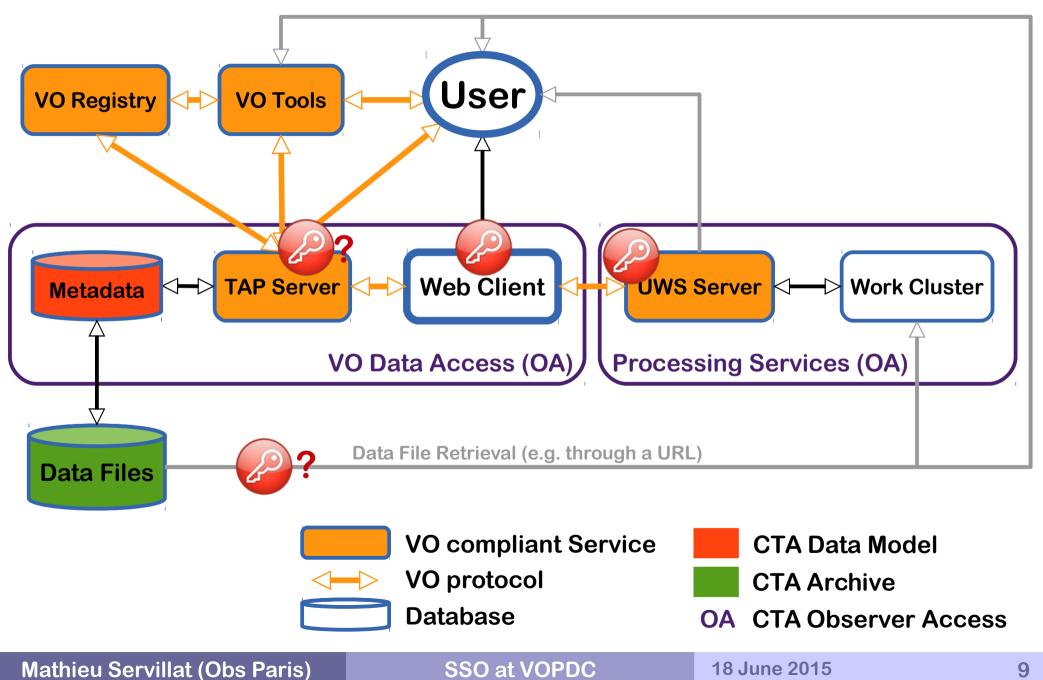
#### Main problems

- How to associate permissions to a user? (Authorization), OAuth, LDAP?
- How do I know that a user is in a specific ID federation? Is eduGAIN large enough?
- ID federation are usually associated to web authentication, how to use it with standalone application like Topcat / Aladin?

#### As a Service Provider

- How can I see that a user is a VO user and give him access to a resource? VO attributes?
- Do we want a centralised Database / Directory of VO user? Should we be Id Providers?
- Should I have a specific list of users including information of his authentication method (Shibboleth, OpenID, OAuth...)?

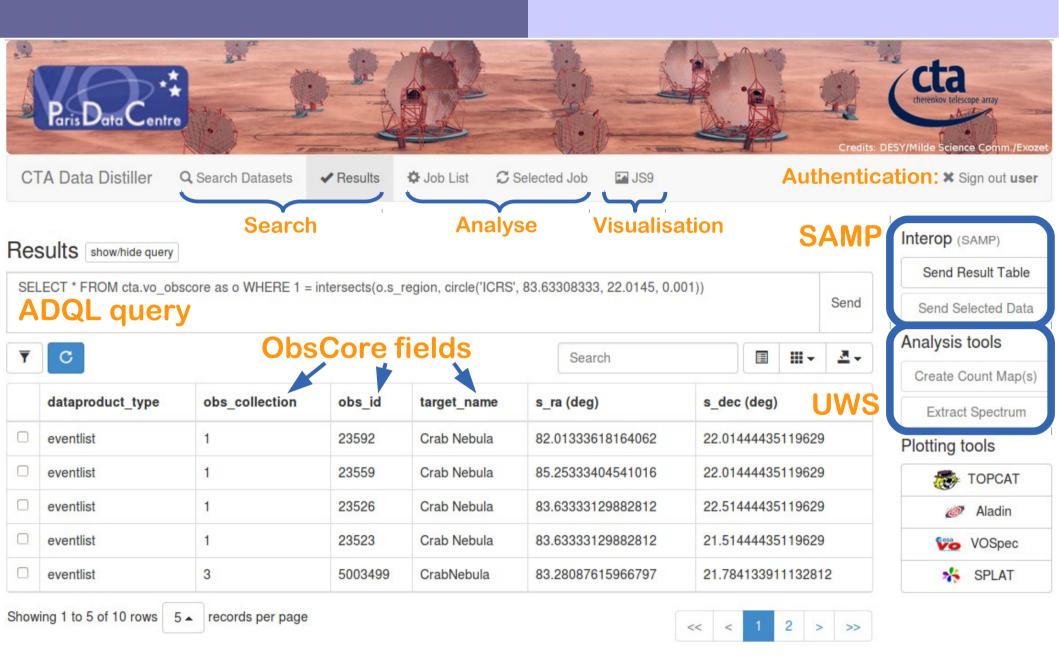
### **Use Case: Data Access for CTA**



### Web Client

#### http://voparis-cta-client.obspm.fr

Paris Data Centre			Cta cherenkov telescope array
A Data Distiller	Search Form Sob List		Credits: DESY/Milde Science Comm./E
Cone Search			
Target Name	Crab Nebula	Used to query Simbad with Sesar	ne and set RA/Dec.
Source RA (deg)	83.633	<ul> <li>Django, jQuery, Boo</li> </ul>	tStrap3
Source Dec (deg)	22.514	<ul> <li>Name resolver</li> </ul>	
Search radius (deg)	0.001	Simbad through Sesame	
	Submit Reset     ADQL que		e ADQL quer
ObsCore Search			
proposal_id		Proposal ID	
dataproduct_type	Nothing selected	<ul> <li>Data product (file content) primary</li> </ul>	/ type
dataproduct_level	Nothing selected	▼ DL0-5	
hieu Servillat	(Obs Paris)	SSO at VOPDC 18 June 2	015



Observatoire de Paris 2014. Based on Django, jQuery and Bootstrap. Glyphs from the Glyphicons Halflings set

Mathieu Servillat (Obs Paris)

**SSO at VOPDC**