

# Challenges of supporting education and research to make use of eduGAIN

Ioannis Kakavas, GRNET, GÉANT

# Outline

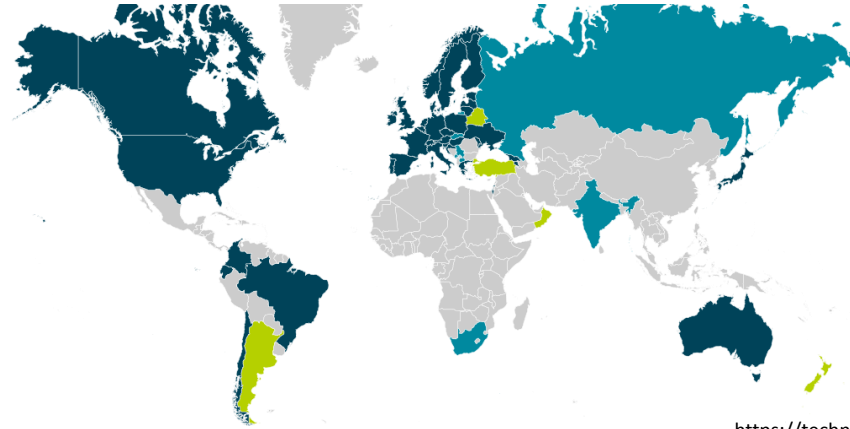
Quick eduGAIN primer

Challenges

Work with research communities

Suggestions and best practices

# eduGAIN



<https://technical.edugain.org/status>

- Service developed by the GÉANT project
- Interconnects SAML2 Identity Federations
- Simplifies access to resources and services

# eduGAIN – The numbers

**38** participating national identity federations

**5** continents

**2079** Identity Providers

**1197** Service Providers

# eduGAIN benefits

- Researchers gain access to a wide range of services
- Researchers can use existing credentials
- Services gain exposure to an international audience
- Services can offer easier onboarding – no registration
- World wide collaboration

# Challenges

## Identity Providers coverage in eduGAIN

- Not all federations participate in eduGAIN
- Not all organizations participate in federations
- Not all participating organizations are published in eduGAIN

## FIM specific competence and experience

- Complex topic with steep learning curve
- ROI not immediately clear

# Challenges

## LoA (or rather the lack thereof)

- Different, not standardized processes for identity vetting
- No adopted standard for levels of assurance

## Attribute release

- The holy grail of federated identity
- Privacy vs Availability

# “What have you done?”

Worked closely with research communities

Implemented new services

Created material for training and guidance

Continuously support research communities and  
Campus IT



# “What have you done?”

Defined frameworks to facilitate attribute release

- GÉANT Code of Conduct
- Research and Scholarship

Work on Levels of Assurance

Interoperability and categorization of services

# Work with research communities

## **DARIAH** (*Humanities and Social Sciences*)

Bring Dariah services to eduGAIN and help establishing GÉANT Data Protection Code of Conduct



## **ELIXIR** (*Life Sciences*)

Access to European Genome Archive and integration of Resource Entitlement Management System (REMS)



## **UMBRELLA** (*Photon/Neutron research*)

Bridging for Umbrella/eduGAIN.

Moonshot pilot to provide SSH login with final goal to remotely control experiments.



# Work with research communities

## CERN

Connect CERN's ADFS-based web single sign-on system to eduGAIN  
Bilateral login possible.



## ESA

"Distributed" organization in 5 countries.  
Pilot project ended early 2015.  
ESA is joining eduGAIN via IDEM (IT).



# Work with research communities

**CLARIN** (*humanities and social sciences*)

**CLARIN**



Clarín Service Provides published in eduGAIN via DFN-AAI  
Shibboleth SP custom error pages for insufficient attribute release

**EIDA** (*seismic studies*)

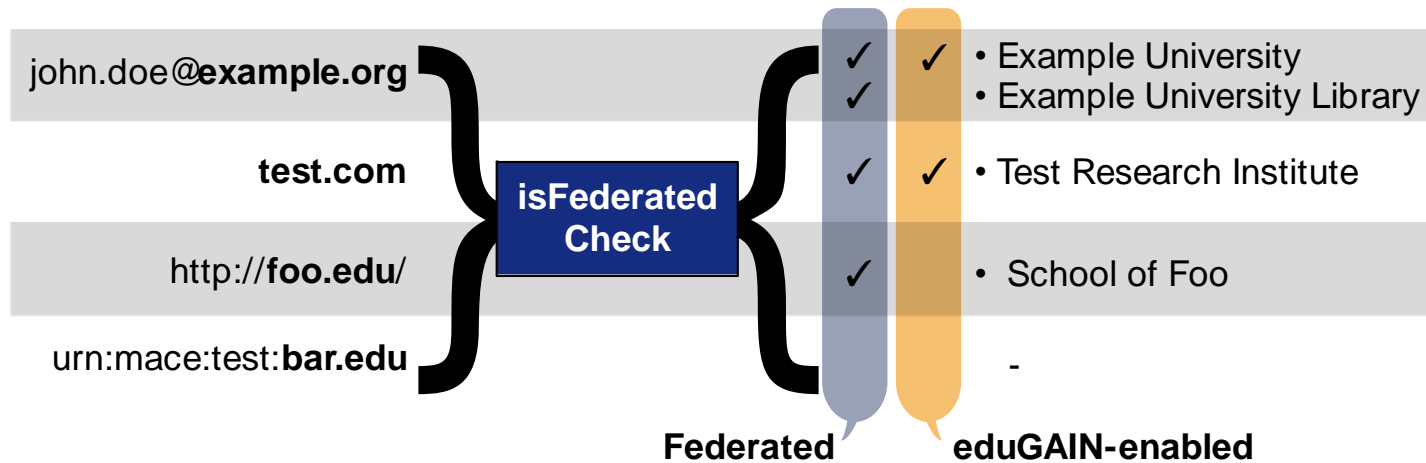
Implementation of portal accessible via eduGAIN  
Enable secure and authenticated data retrieval



# Services

## eduGAIN isFederated Check Tool

*Is my target user group federated?*

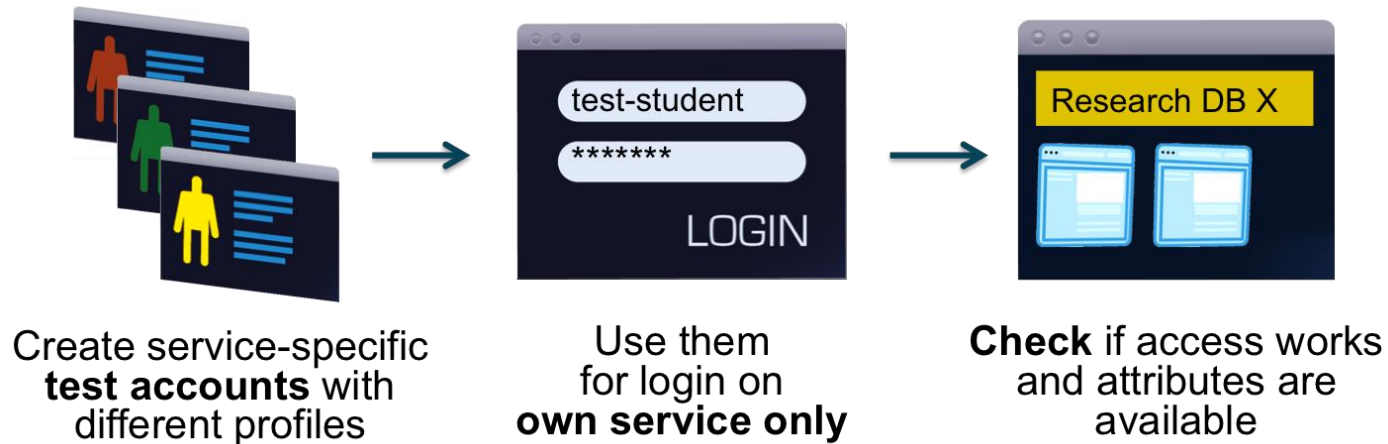


<https://wiki.edugain.org/isFederatedCheck/>

# Services

## eduGAIN Access Check

*Have I set up my Service Provider correctly?*



<https://access-check.edugain.org>

# Services

## eduGAIN Attribute Release Check

*Am I releasing the necessary attributes?*

eduGAIN Attribute Release Check

Result for **SWITCH** (<https://aai-logon.switch.ch/idp/shibboleth>)



REFEDS Research & Scholarship Test **Tested**

entityID: <https://rms.aai.niif.hu/shibboleth>

entityCategories:

- Research & Scholarship

**Verdict:** **A+**

Great! IdP sends all necessary information  
[More about evaluation](#)

Details: [show](#)

Attributes Received

- mail **OK**  
urn:oid:0.9.2342.19200300.100.1.3  
\*\*\*\*\*
- eduPersonPrincipalName **OK**  
urn:oid:1.3.6.1.4.1.5923.1.1.1.6  
\*\*\*\*\*
- displayName **OK**  
urn:oid:2.16.840.1.113730.3.1.241  
\*\*\*\*\*
- eduPersonTargetedID **OK**  
urn:oid:1.3.6.1.4.1.5923.1.1.1.10  
\*\*\*\*\*
- eduPersonScopedAffiliation **OK**  
urn:oid:1.3.6.1.4.1.5923.1.1.1.9  
\*\*\*\*\*

GÉANT Data Protection Code of Conduct Test **Tested**

entityID: <https://coco.aai.niif.hu/shibboleth>

entityCategories:

- Code of Conduct

**Verdict:** **A+**

Great! IdP sends all necessary information  
[More about evaluation](#)

Details: [show](#)

Attributes Received

- mail **OK**  
urn:oid:0.9.2342.19200300.100.1.3  
\*\*\*\*\*
- eduPersonPrincipalName **OK**  
urn:oid:1.3.6.1.4.1.5923.1.1.1.6  
\*\*\*\*\*
- schacHomeOrganization **OK**  
urn:oid:1.3.6.1.4.1.25178.1.2.9  
\*\*\*\*\*
- eduPersonScopedAffiliation **OK**  
urn:oid:1.3.6.1.4.1.5923.1.1.1.9  
\*\*\*\*\*

Maximum Attribute Release Test **Tested**

entityID: <https://noec.aai.niif.hu/shibboleth>

entityCategories:

- None

**Verdict:** **A+**

Great! IdP sends all necessary information  
[More about evaluation](#)

Details: [show](#)

Attributes Received

- mail **OK**  
urn:oid:0.9.2342.19200300.100.1.3  
\*\*\*\*\*
- eduPersonPrincipalName **OK**  
urn:oid:1.3.6.1.4.1.5923.1.1.1.6  
\*\*\*\*\*
- displayName **OK**  
urn:oid:2.16.840.1.113730.3.1.241  
\*\*\*\*\*
- schacHomeOrganizationType **OK**  
urn:oid:1.3.6.1.4.1.25178.1.2.10  
\*\*\*\*\*
- eduPersonTargetedID **OK**  
urn:oid:1.3.6.1.4.1.5923.1.1.1.10  
\*\*\*\*\*
- eduPersonScopedAffiliation **OK**  
urn:oid:1.3.6.1.4.1.5923.1.1.1.9  
\*\*\*\*\*
- cn **OK**  
urn:oid:2.5.4.3  
\*\*\*\*\*

# What can campus IT do?

Join your local federatrion<sup>0</sup>

Get your Identity Provider published in eduGAIN

Support GEANT Code of Conduct entity category

Support REFEDS Research & Scholarship entity category

Implement Attribute release based on CoCo and R&S

Check your attribute release policy

[0] <https://refeds.org/federations/federations-map>



# What can campus IT do?

Support your users

Enable collaboration

Of course keeping their privacy in mind

One last thing

**RELEASE ALL THE**



# Thank you !

## Questions / Comments ?