

GÉANT Federated Identity Management Services Overview

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Authentication & Authorisation Services GÉANT Is Involved



World-wide roaming **network access** (via Wifi) for the international research and education community.



World-wide trustworthy exchange of information related to identity, authentication and authorisation (AAI) **via the web**.



Moonshot takes identity federation and single **sign-on beyond the web** and into remote access, email, instant messaging, file sharing, and more.
("eduroam + eduGAIN = Moonshot")
Developed by Janet (UK), not widely established yet.

eduGAIN (for now) Most Relevant to Research Communities



Why?

- **Web-based**

Most users should be familiar with this already thanks to social media ("Login with Facebook Connect").

- **Global**

Not limited to one country or region. eduGAIN is open to all academic identity federations.

- **Operated by the community for the community**

GÉANT together with national research & education networks and their members (universities, research institutes, ...)

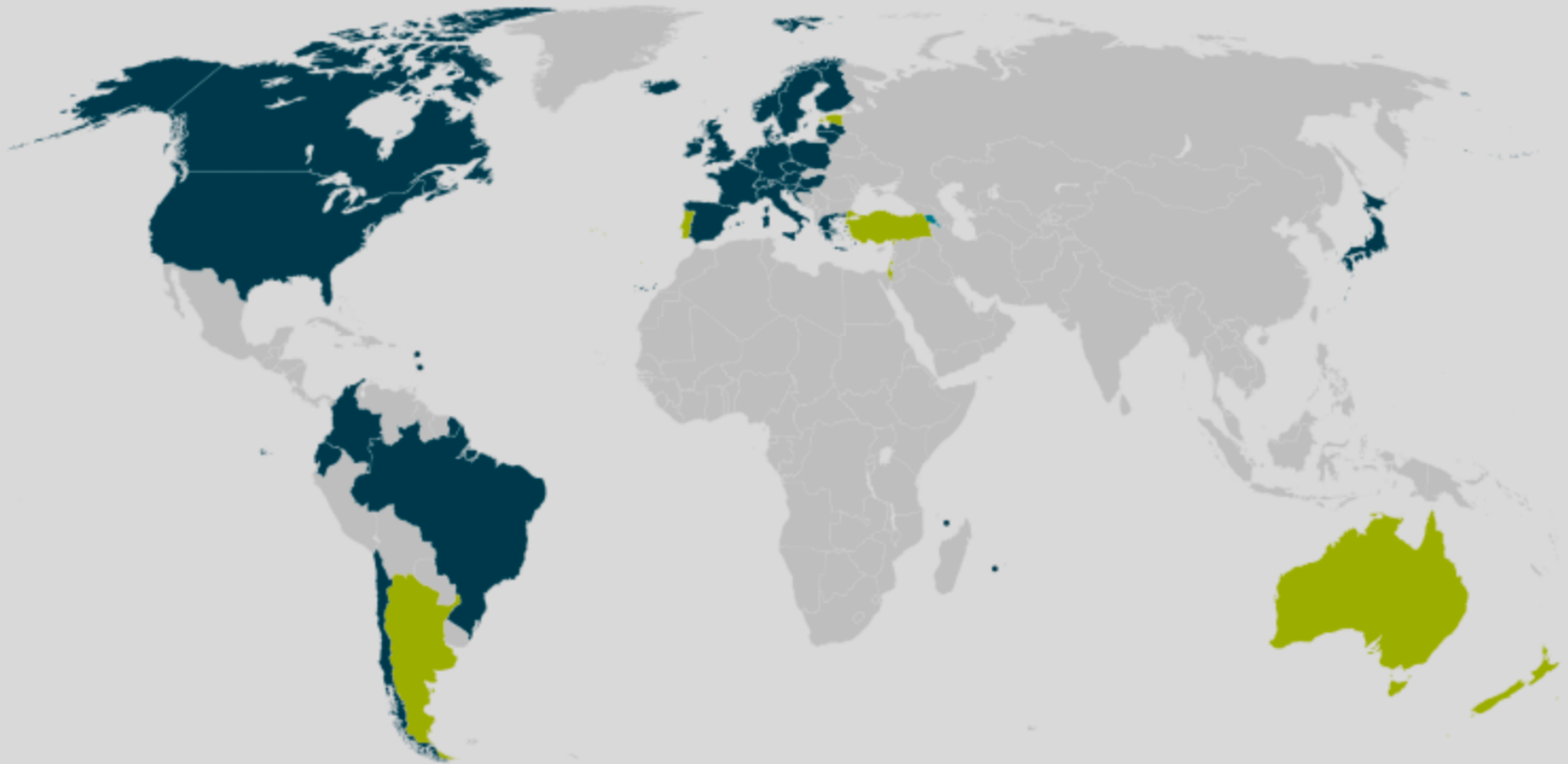
- **Familiar to Users**

Already in use at users' home institutions
Universities in many countries rely on identity federations.

- **Availability**

It's there already today and coverage is growing quickly!

eduGAIN (National) Member Federations



- 30 eduGAIN Members
- 6 Joining eduGAIN
- 3 Candidate Federations

Source: <http://edugain.org/technical/status.php> (Nov. 2014)
1173 Identity Providers (19.1.2015)
(1 IdP can represent several hundred organisations!)
1129 Service Providers (19.1.2015)

- Currently most eduGAIN Identity Providers support **web authentication only**. Non-web profiles (SAML-ECP) are however likely to become more widely deployed in the coming months.
- Only few research communities have user base that is completely federated/eduGAIN-ready. **Home-for-the-homeless** Identity Provider still needed in most cases.
- **Attribute release** in some countries and in some federations has yet to be improved.
- User attributes provided by eduGAIN are fairly general (name, email, unique identifier, affiliation). **Community-specific attributes still needed**.

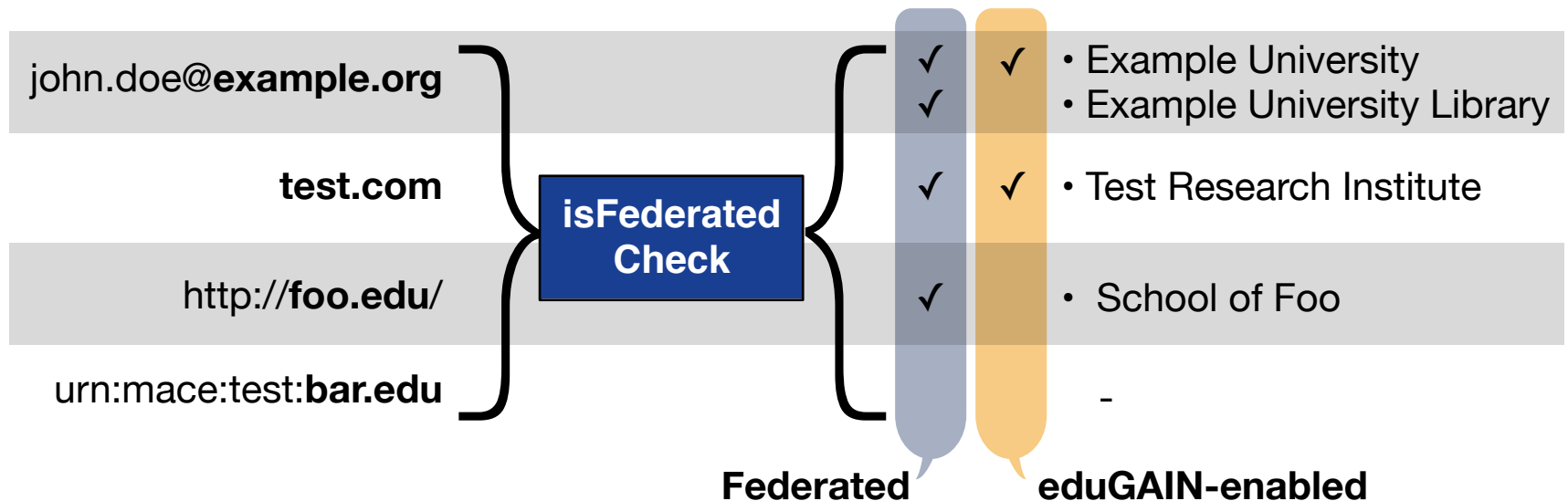
Example Use-Cases from the Responses



- **In General:**
Grant access to **non-public data** or **restricted functionality** to:
 - **selected users** only (e.g. list of unique identifiers)
 - **large groups** of users (e.g. all staff members of higher ed.)
- BGS: "allow trusted users 'early' access to data that is being temporarily withheld from distribution"
- EIDA (hypothetical use-case): Download restricted unencrypted data (350TB) data from 8 data centers via standard protocols and one single account from your home institution with one single registration (vs currently encrypted data with max 8 registrations/passwords currently, two proprietary protocols and one hard-to-extend software implementation).

IsFederated Check Tool

How many of your users are federated yet?



- Shows if users' organisations are already federated and eduGAIN-enabled
- Great for research groups to find out how many of their users potentially could already login to their services via eduGAIN
- URL: <https://wiki.edugain.org/isFederatedCheck/>

How to Join eduGAIN?



- **Get Familiar and Try it out yourself**

Get a free VMs: <https://accounts.oceanos-global.grnet.gr/ui/login>

- Federated Doodle: <https://foodl.org/>

- eduGAIN Wiki: <https://wiki.edugain.org>

- More on:

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

 - [How to test an eduGAIN Identity Provider](#)

- "Basic" Service Catalogue: <http://technical.edugain.org/entities.php>

- **Add a (Pilot) Service**

Before you start best either contact a [local federation](#) or edugain-integration@geant.net and ask to point you to the installation/configuration guides.

- **Join with your whole Research Community**

Add your services to eduGAIN. Multiple options for that:

<https://wiki.edugain.org/File:Options-for-Joining-eduGAIN.pdf>