



eduGAIN Update

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eduGAIN Service Owner

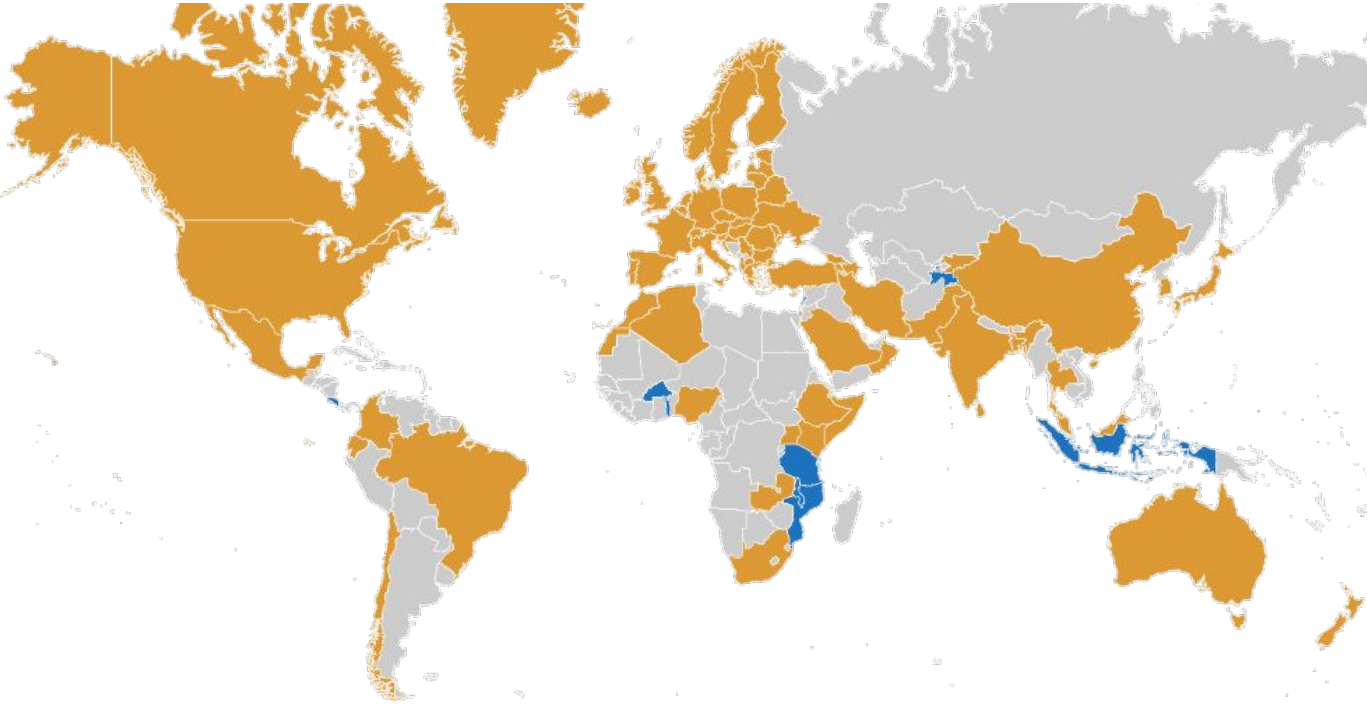
eduGAIN Assembly December 3rd 2025

www.geant.org

Agenda

- eduGAIN's numbers update
- eduGAIN OT
- eduGAIN Participants Security Contact
- eduGAIN CSIRT - Communication Challenge
- OpenID Federation Pilot update

eduGAIN Global Coverage



83 Federations

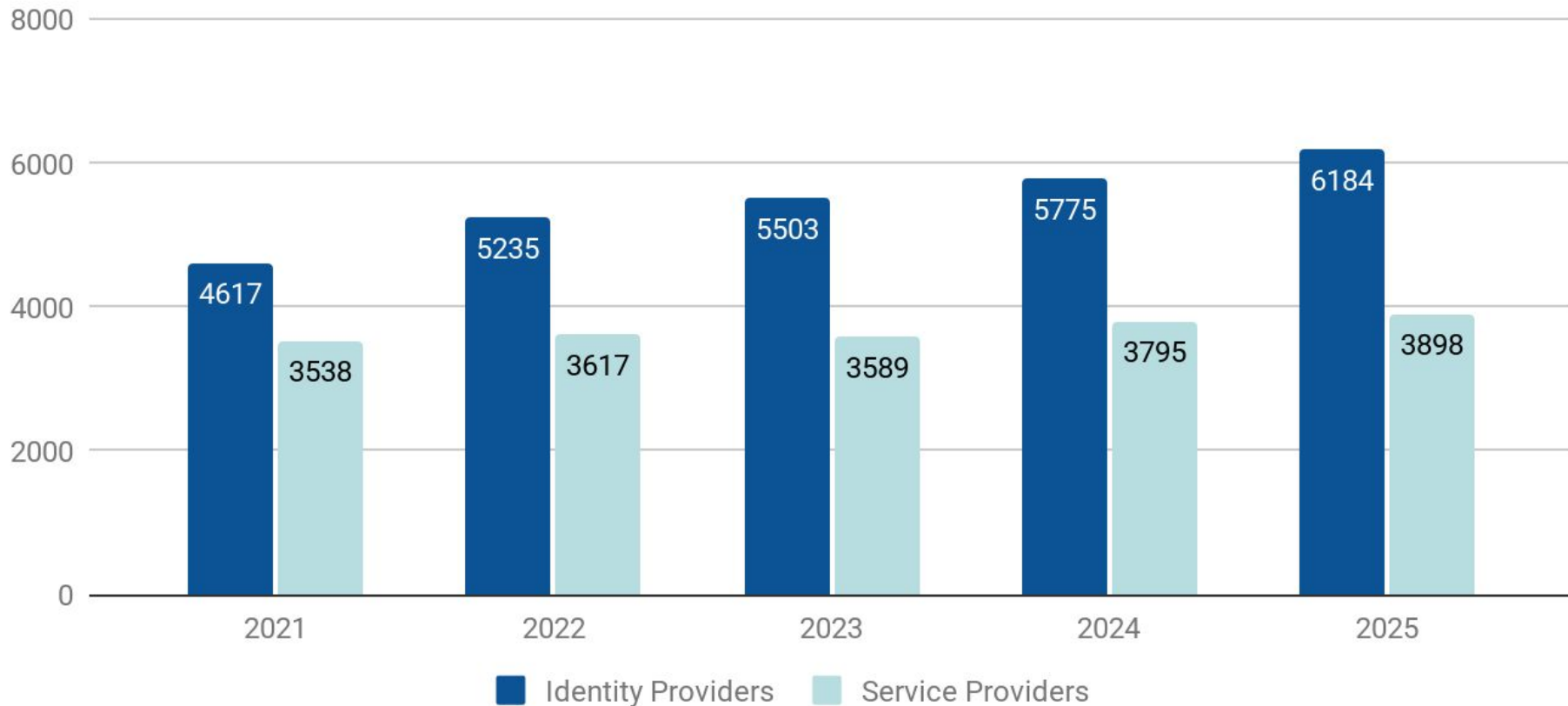
10062 Entities

6184 Identity Providers

3898 Service Providers

Last update December 3rd 2025

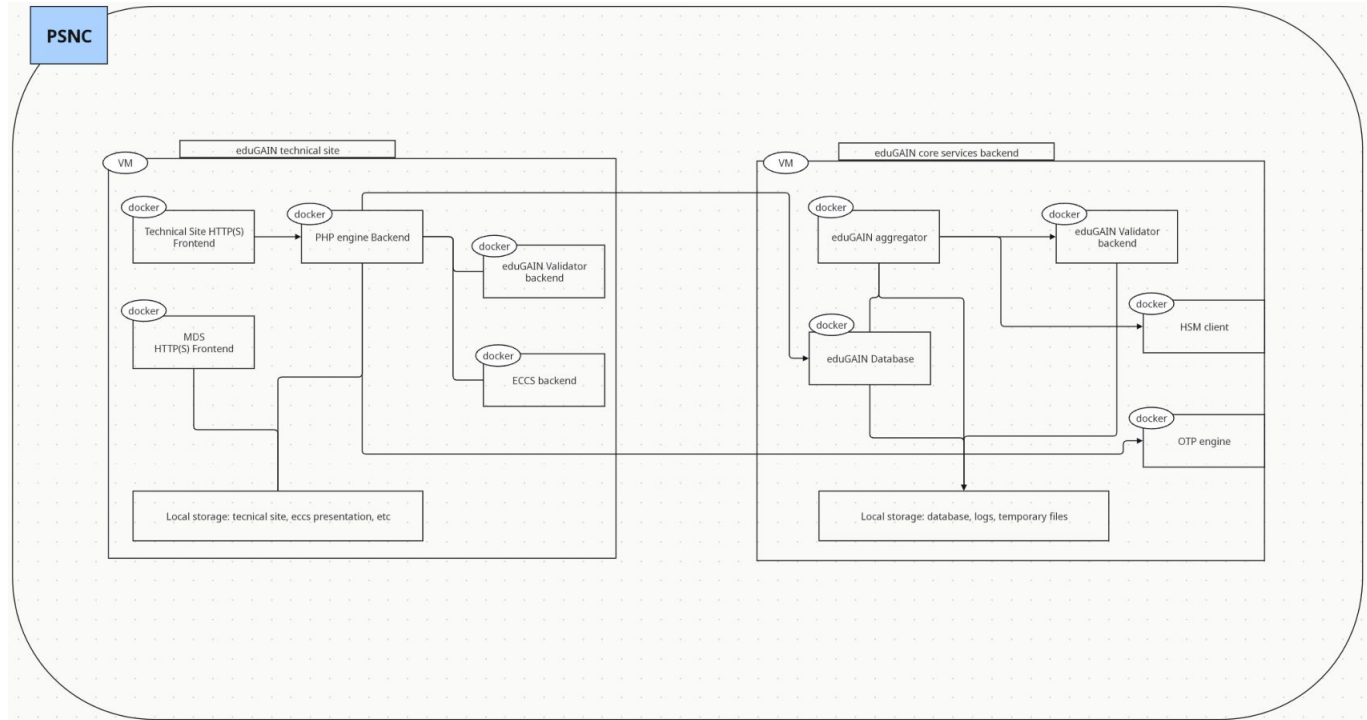
Entities growth



eduGAIN OT - Core services versioning, automation, isolation



ANSIBLE



eduGAIN OT

- New eduGAIN Core Services architecture:
 - Fully automated deployment based on ansible
 - Fully containerized environment
- Duplication of Core Services on GARR Infrastructure
 - Done
- Additional site planned (SUNET)
- Currently planning the implementation of an highly available mds.edugain.org

eduGAIN Participants Security Contact

- **Current numbers: 65 out of 83 Participants**
- Requirements: <https://wiki.geant.org/x/qgBVPg>
- Deadline 31st of December 2025
- You may ask for more time if needed
- Non compliance is considered policy violation which will lead to technical suspension: <https://wiki.geant.org/x/3y35Bw>
- Starting 8th December 2025 eduGAIN Support will start contacting missing federations.

Dedicated email address

Incident Response

NREN/Federation CSIRT

Attach policy if available

TLP

Communication Challenges

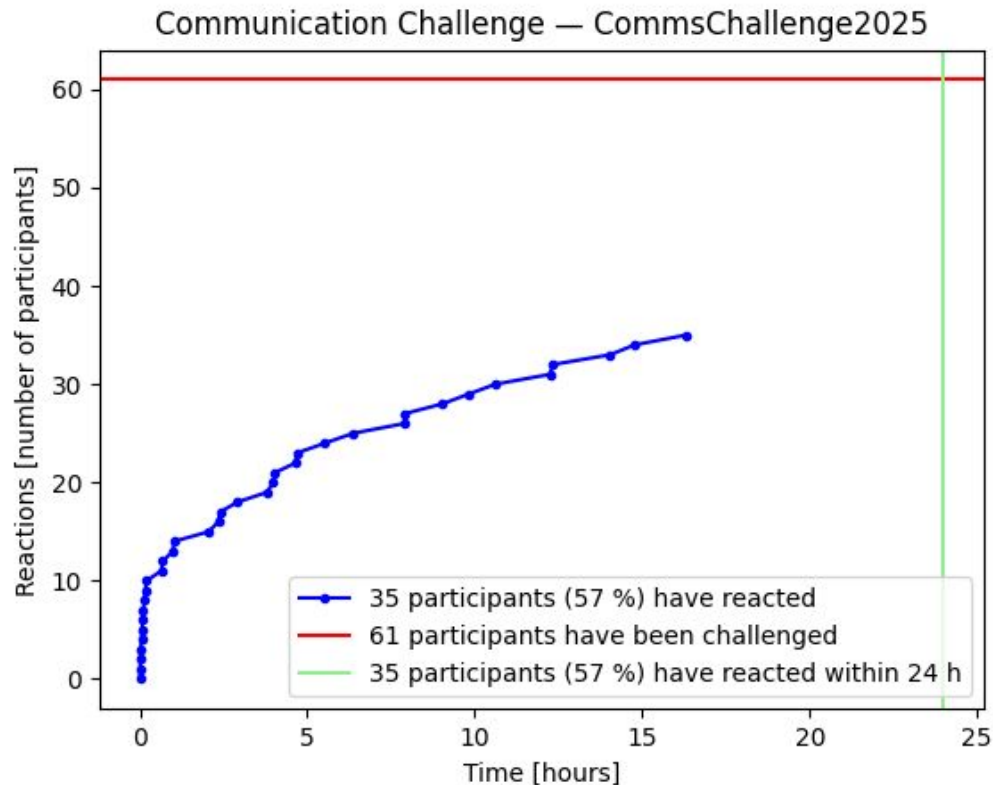
eduGAIN CSIRT





Randomized start time for each participant

- 2025-11-25T11:20:11.283631Z - First challenge sending time.
- 2025-11-26T10:49:11.291460Z - Last challenge sending time.
- 2025-12-02T23:59:59.00 - End of the challenge.



eduGAIN CSIRT - Communication Challenge



- SPF and DKIM for edugain.org domain
- Added a simple math challenge to verify that there is a human on the other end.
- All time high:
 - 61 Security contacts challenged
- **All time low:**
 - 59% Response rate
 - 57% Response rate within 24h



eduGAIN OpenID Federation Pilot Overview



WHY

- SAML is a legacy protocol
- Mobile clients
- Post-quantum cryptography
- Verifiable credentials and DID
- etc, etc



HOW

- OpenID Fed set up kit based on T&I Incubator Resolver
- **DRAFT** eduGAIN OpenID Federation Technological Profile



WHO

- eduGAIN service and T&I Incubator
- Federation Operators
- RC AAls
- OPs/RPs implementers are welcome



WHEN

- Happening now!
- The initial development work ends in 2024
- The pilot will start 1st quarter 2025



Thank you

Any questions?

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