Agenda

• eduGAIN’s Overview
• Current model Challenges
• Community Recommendations
• What is going to change
• Some conclusions
Leadership and Advisory Groups

Drive the Bus!

Leadership opportunities for community members who contribute their insights, expertise, and talents within Identity & Access Management

Taking nominations now through October 1!

InCommon Steering Committee
InCommon Technical Advisory Committee (TAC)
InCommon Community Trust and Assurance Board (CTAB)
Community Architecture Committee for Trust and Identity (CACTI)
eduroam-US Advisory Committee

Please visit the Advisory Committee poster in TechEX foyer for more information and submit a nomination. Otherwise, you may click this [link](#) to submit a nomination.
T&I Service Portfolio

The big picture

- Supporting virtual teams and sharing resources
- Offering a validation service based on “studentness”
- Widening scope with OpenRoaming

eduTEAMs
InAcademia
eduGAIN
eduroam

www.geant.org
“eduGAIN interfederation service connects identity federations around the world, simplifying access to content, services and resources for the global research and education community”
Inter-federated Access

Federation Blue

Federation Green
A complex ecosystem
The eduGAIN contributors & stakeholders
Does it work?
eduGAIN Global Coverage

78 Federations
8968 Entities
5369 Identity Providers
3618 Service Providers
eduGAIN’s entities appearance in multiple Federations

Number of Entities

- 2800
- 1000
- 350
- <10
Entities' Compliance to Standards
What could Possibly go wrong?

- Complex environment
- User expectations
- New technologies adoption
- Slow governance model
eduGAIN Futures Working Group

REFEDS

Baseline Expectations

- Identify key issues with current eduGAIN service
- Review the governance model
# eduGAIN Futures WG Problem Statements

<table>
<thead>
<tr>
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<th>Problem Statement</th>
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<tbody>
<tr>
<td>01</td>
<td><strong>Complex service experience</strong></td>
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<tr>
<td></td>
<td>• Almost 9000 entities</td>
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<td>• Service experience varies wildly</td>
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<td>02</td>
<td><strong>Unpredictability</strong></td>
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<tr>
<td></td>
<td>• Information exchanged between IdP A and SP B?</td>
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<td></td>
<td>• Hard to rely on eduGAIN without predictable outcome</td>
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<tr>
<td>03</td>
<td><strong>Diverse policies and processes</strong></td>
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<tr>
<td></td>
<td>• Federations have their own policies and processes</td>
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<td></td>
<td>• Interaction with eduGAIN/participants is often inconsistent</td>
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<tr>
<td>04</td>
<td><strong>Variable service offerings</strong></td>
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<tr>
<td></td>
<td>• Differences in funding, stuffing and service level</td>
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<tr>
<td></td>
<td>• Service offerings varying accordingly</td>
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<td>05</td>
<td><strong>Slow response to change</strong></td>
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<td>• Entities and Federation Operators are often slow to adopt changes to security standards and policy requirements</td>
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<td>06</td>
<td><strong>Delays in decision making and new Technologies</strong></td>
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<tr>
<td></td>
<td>• EduGAIN itself is slow in taking decisions and embracing new technologies</td>
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<tr>
<td>07</td>
<td><strong>Unclear mission and branding strategy</strong></td>
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<tr>
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<td>• Mission, role and brand of eduGAIN are unclear, leading to different expectations</td>
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eduGAIN Futures WG Recommendations

- enforce contacts
- eduGAIN CSIRT
- interop SAML Profile
- filter individual entities
- Sirtfi, Privacy Reqs, Assurance
- attributes release profiles
- consistent metadata publishing
- eduGAIN strategy and mission
- clear compliance checking
- new technologies roadmap
- elected Steering Committee
- Federations information audit
- improve joining process
Actual changes

**Governance**
- Constitution update
- eduGAIN Steering Committee
- eSC Election
- eSC Chair appointment

**Policy**
- eduGAIN Interoperable SAML Profile
- New requirements for Federations and Entities
- eduGAIN Declaration and MRPS updates

**Technology**
- Support entity-level metadata updates (filtering)
- New compliance checking system
- Activate community Pilots/Labs on new technology stacks
Additional technology stacks and profiles for eduGAIN?
eduGAIN Metadata Creation and Distribution
Users trust Home Organisation

HomeOrg/Providers trust Federations

Federations trust eduGAIN

Do users trust eduGAIN?

Do users even know eduGAIN?
Trust Flows

eduGAIN

- User ➔ Entity ➔ Out Of Band ➔ Federation ➔ eduGAIN

Hierarchical

- User ➔ Service
  - Service Public Key
  - Intermediate Authority ➔ Root Authority

eduGAIN Public Key
Fed Public Key

An eduGAIN OIDC Federation Trust Flow
Conclusions

- eduGAIN is a great success
- **Main challenges**
  - High complexity
  - Low consistency
  - Slow governance
  - Legacy Technology
- **Change process**
  - Futures WG Recommendation on Governance/Service/Tech
- Adoption of new technologies involves new trust model
Thank you

Any questions?

davide.vaghetto@garr.it
maarten.kremers@surf.nl

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