

Identity Harmonisation

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http://www.aaiedu.hr/dan2015.html



"the voice that articulates the mutual needs of research and education identity federations worldwide"



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Happy 10th Birthday REFEDS

Read More..

The mission of REFEDS (the Research and Education FEDerations group) is to be the voice that articulates the mutual needs of research and education identity federations worldwide.

The group represents the requirements of research and education in the ever-growing space of access and identity management, working with and influencing the direction of other organisations on behalf of our participants.

REFEDS participants are from a wide range of backgrounds, but all share an interest in developing access and identity management technology, policies and processes. Many participants represent national identity federations and many come from National Research and Education Networks ('NRENS').







The REFEDS Community



Unlocking Attributes



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ENTITY CATEGORIES

FIM4R / SIRTFI

FEDERATION TEMPLATES

VIRTUAL ORGANISATIONS

MONITORING

SPECIFICATIONS AND SCHEMAS



What do our users want?

- User Friendliness
- 2. Homeless Users
- 3. Different Levels of Assurance
- 4. Community based authorization
- Flexible and scalable attribute release policies
- Attribute Aggregation & Account Linking
- Federation solutions based on open and standards based technologies
- 8. Persistent & Unique User Identifiers
- User managed Identity Information
- 10. Up to date identity information
- 11. User groups and roles
- 12. Step up authentication

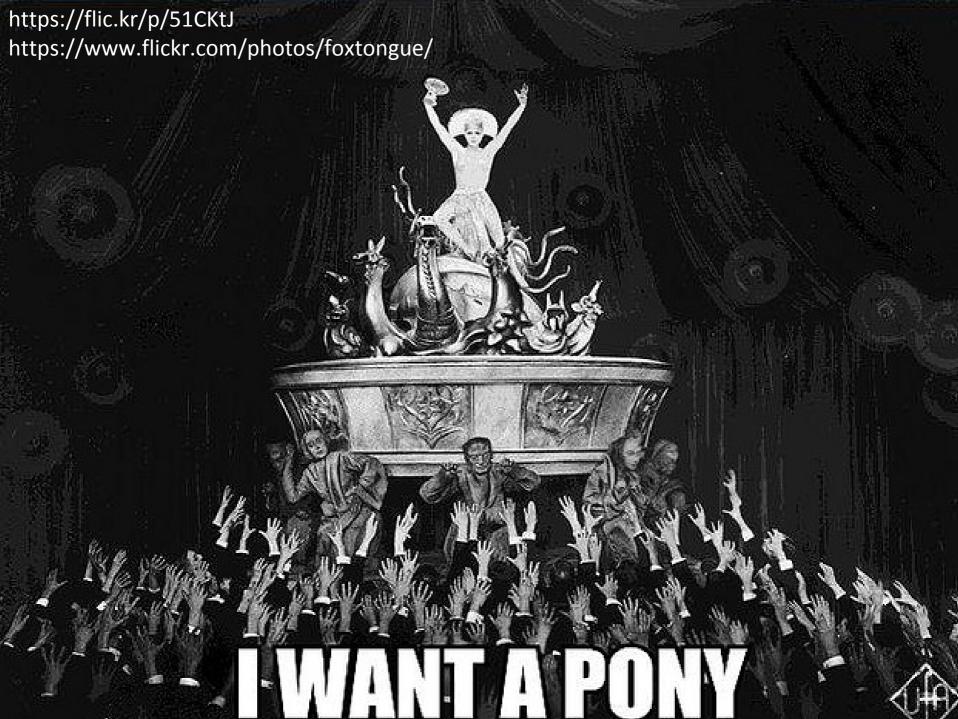
- 13. Browser and non-browser based federated access
- 14. Delegation
- 15. Social media identities
- 16. Integration with e-Government infrastructures
- 17. Service Provider Friendliness
- 18. Effective Accounting
- 19. Policy Harmonization
- 20. Federated Incident report Handling
- 21. Sufficient Attribute release
- 22. Awareness about R&E Federations
- 23. Semantically harmonized identity attributes
- 24. Simplified process for joining identity federation
- 25. Best practices for terms and conditions



What's new from our users?

- 1. User Friendliness
- 2. Homeless Users
- Different Levels of Assurance
- 4. Community based authorization
- 5. Flexible and scalable attribute release policies
- 6. Attribute Aggregation & Account Linking
- 7. Federation solutions based on open and standards based technologies
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We don't normally communicate directly with entities, but...





Two Campaigns for 2016

 How to use Federations more effectively: https://wiki.refeds.org/download/attachm ents/6619142/REFEDS.pdf

 New Years Resolutions: https://wiki.refeds.org/download/attachm ents/6619142/Resolutions.pdf



HOW TO USE FEDERATIONS MORE EFFECTIVELY

HOW TO USE FEDERATIONS

MORE EFFECTIVELY

eduGAIN means there is no longer any need to join multiple federations. Chose your preferred home federation and ask them to export your metadata worldwide today.

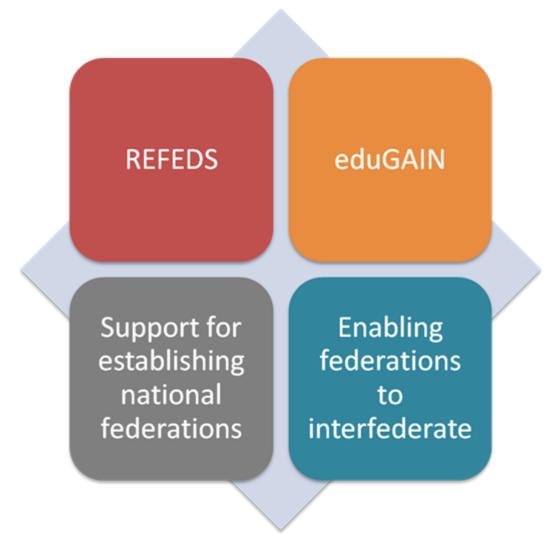


https://edugain.org

Interfederate



REFEDS? eduGAIN?



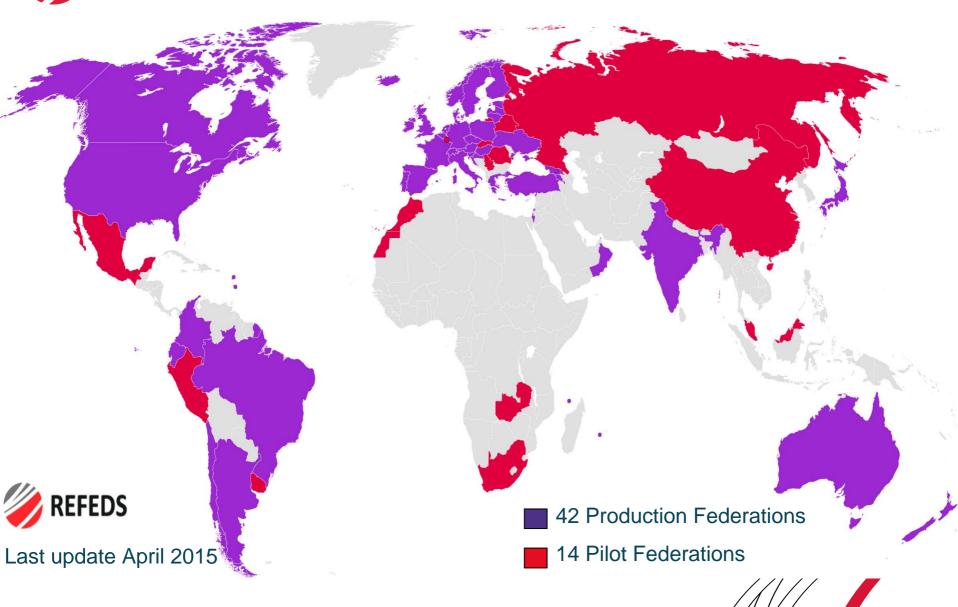


Lots of federations...



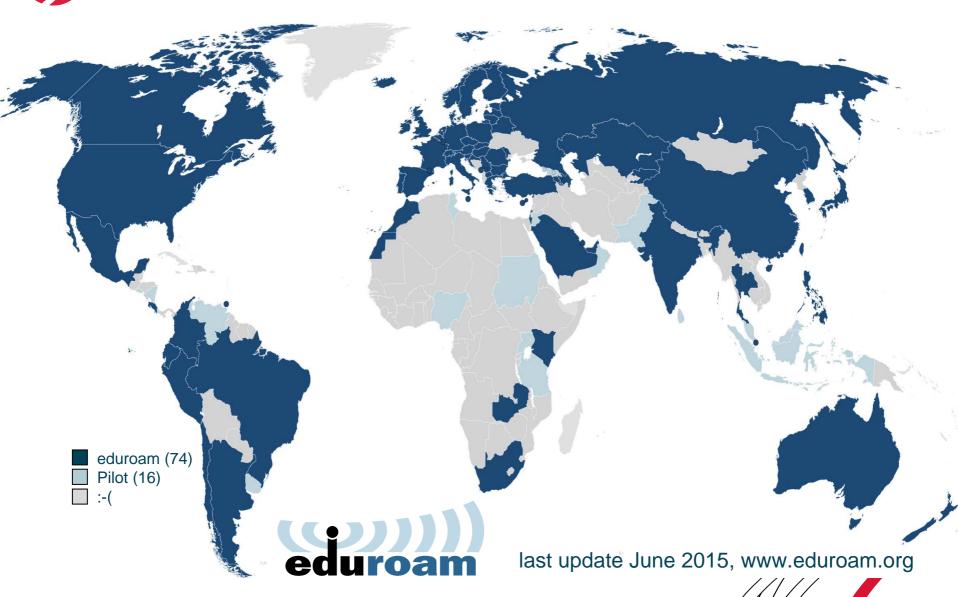


Identity Federations: World Wide



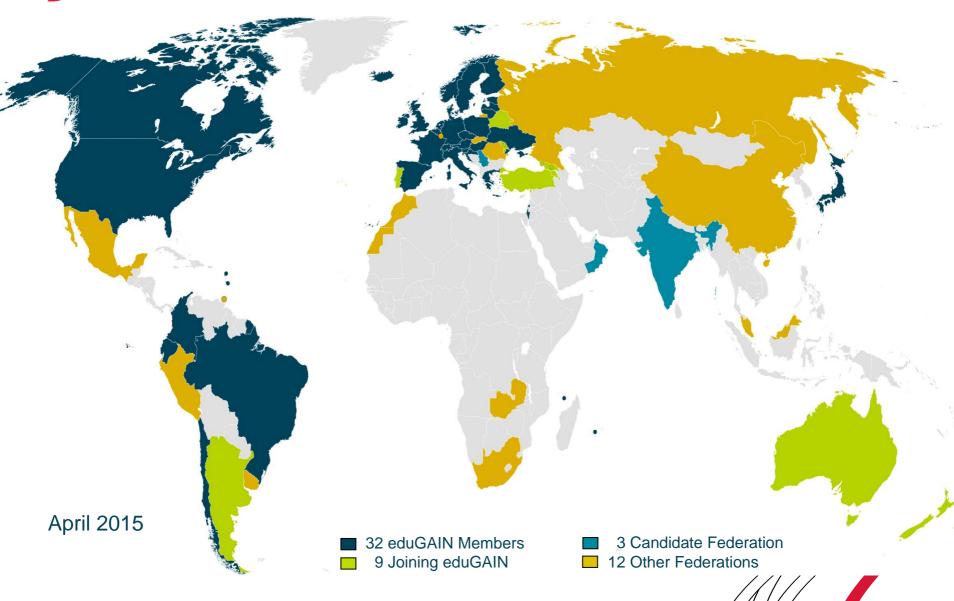


REFEDS eduroam Federations: World Wide



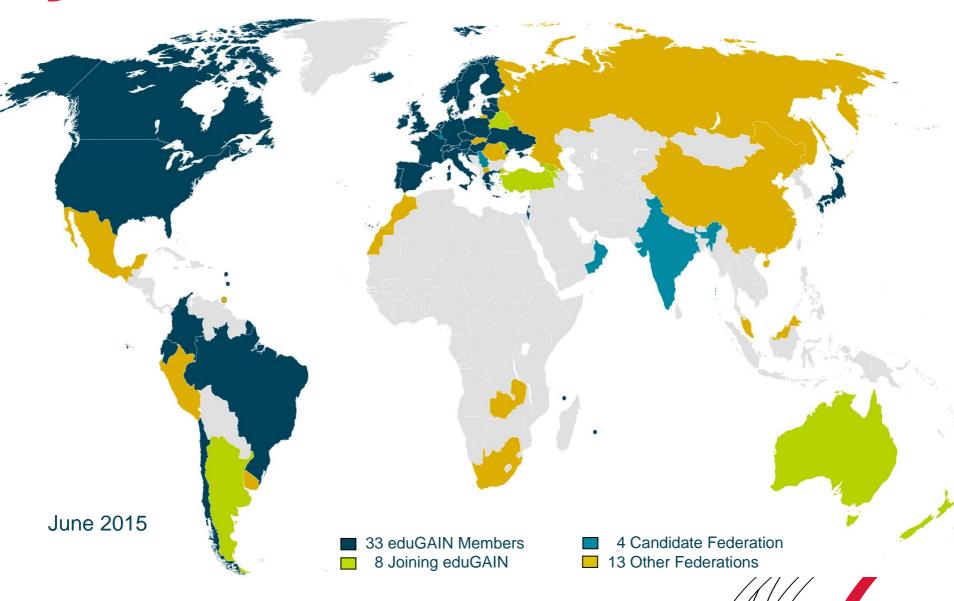


eduGAIN & Federation Status





eduGAIN & Federation Status





eduGAIN & Federation Status





eduGAIN: Some Statistics

- April 2011: Official start of eduGAIN
- Nov 2013: 21 Federations are members (50%), 5 joining
- Apr 2014: 24 Federations are members (51%), 6 joining
- April 2015: 32 Federations are members (57%), 9 joining
- June 2015: 33 Federations are members (58%), 8 joining,
 4 candidates
- Entities: 1285 IdPs, 961 SPs (2244 in total)
 One IdP can represent for dozens of organisations and services depending on federation architecture => actual numbers are higher
- Whole (academic) SAML landscape:
 56 Federations, 3007 IdPs, 6514 SPs (gathered from metadata)
 Not all of them *need* to be interfederated, e.g. many internal SPs



Possible Issues?

"Foreign" Metadata

Different Policies

eduGAIN ties to local policy

Strange Tags in the Metadata

Entity Categories etc Metadata Aggregation and Stripping

Privacy Concerns Data Protection in your country?

Review, get advice

HOW TO USE FEDERATIONS

MORE EFFECTIVELY

It is important that users are confident that their data is being well looked after. Services can sign-up to a federation "Code of Conduct" to declare that they look after personal data well.



https://wiki.refeds.org/display/CODE/

Look after personal data



It is difficult for institutions to know the correct attributes to send to services to ensure privacy is preserved but services are usable. Entity Categories make these decisions easy for both institutions and services.

Help attributes flow

https://wiki.refeds.org/display/ENT/



What is an Entity Category?

- Entity Categories group federation entities that share common criteria.
- obliged to conform to the characteristics set out in the definition of that category.
- Can be SP or IdP tagged.
- a way to facilitate IdP decisions to release a defined set of attributes to SPs (scaling attribute release policies).
- Other use cases (see hide-from-discovery).
- Expressed as a SAML Attribute.



Entity Categories?

- Helps you tag entities to say certain things about them.
- "Hide from Discovery" = don't display this IdP in your discovery service: https://refeds.org/category/hide-from-discovery.
- "Research and Scholarship" = this SP genuinely needs certain attributes to support research activity: https://refeds.org/category/research-and-scholarship.
- "Code of Conduct" = this SP is self-declaring that it meets data protection standards IN EUROPE: https://wiki.refeds.org/display/CODE/.



```
<EntityDescriptor xmlns="urn:oasis:names:tc:SAML:2.0:metadata"</pre>
entityID="https://service.example.com/sp">
<Extensions xmlns:mdattr="urn:oasis:names:tc:SAML:metadata:attribute">
<mdattr:EntityAttributes xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion">
<saml:Attribute
Name="http://macedir.org/entity-category"
NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri">
<saml:AttributeValue>http://refeds.org/category/research-and-
scholarship</saml:AttributeValue>
</saml:Attribute>
</mdattr:EntityAttributes>
</Extensions>
</EntityDescriptor>
```



Can I Release Attributes?

TRANSPARENCY SAFEGUARDS IMPACT MANAGEMENT BALANCE CASE BY CASE

https://wiki.refeds.org/display/ENT/Guidance+on+justification+for+at tribute+release



Can I Release Attributes?

CONSENT	The data subject has unambiguously given his consent.
CONTRACTUAL	Processing is necessary for the performance of a contract to which the data subject is party.
LEGAL OBLIGATION	Processing is necessary for compliance with a legal obligation to which the data controller is subject.
VITAL INTEREST	Processing is necessary in order to protect the vital interests of the data subject.
PUBLIC INTEREST	Processing is necessary for the performance of a task carried out in the public interest or in the exercise of official authority vested in the controller or in a third party to whom the data are disclosed.
LEGITIMATE INTERESTS	Processing is necessary for the purposes of the legitimate interests pursued by the controller or by the third party or parties to whom the data are disclosed.



STEP ONE

Check that Legitimate Interests is the best approach.

STEP TWO

 Qualify the legitimacy of the request – lawful, clearly articulated, real need.

STEP THREE

 Determine whether the processing is necessary to achieve the goal.



STEP FOUR

 Balance the data controller's needs against the interests of the subjects.

STEP FIVE

Identity safeguards you can put in place (tech design etc).

STEP SIX

Demonstrate (publish) compliancy.

STEP SEVEN

Allow the user to opt-out.

HOW TO USE FEDERATIONS

MORE EFFECTIVELY



Metadata is the life-blood of identity federations and if yours is out of date, your users may not reach their destination. Make sure your federation has an organisational name, organisational description and your logo in your metadata.

Update your discovery data

https://discovery.refeds.org



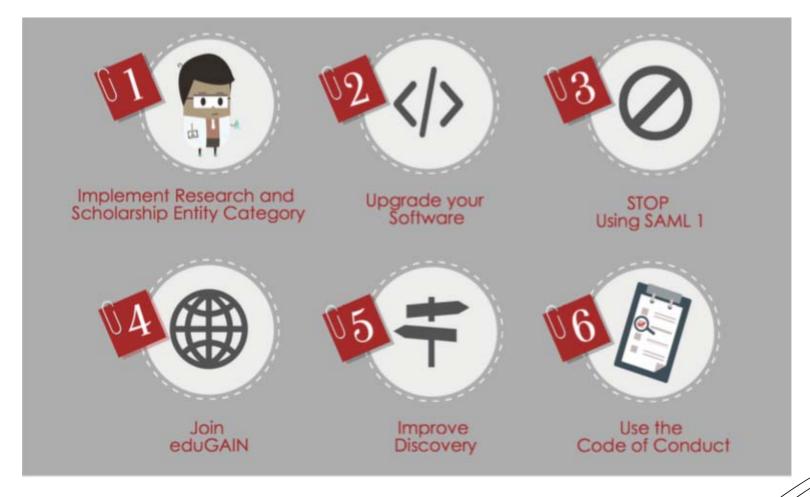
https://discovery.refeds.org/



New Year's Resolutions









 Help us design our workplan: <u>https://wiki.refeds.org/display/WOR/2016</u> <u>+Work+Plan+Preparation</u>

 Participate: https://refeds.org/about/refeds-participants-agreement

