AAI: systematically addressing the attribute release problem

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http://lindat.cz
Every scholar in the Social Sciences and Humanities (SSH) in every EU and Associated country should have direct single sign-on access for research purposes … made available by public bodies.

because of licensing, personalised services, group collaboration etc.
How

● home organisations provide identities
  ○ one account, single sign-on, security, easier for services
● home organisations->national federations
  -> inter-federating
● CLARIN SPF
Requirements

- user identifiable to the same real person in time
  - retention policy or non-reassignable
- basic attributes e.g., required for authz.
Problems

- requirements on the identity provider
  - registration policy differences
- attribute release problem
  - Research & Scholarship entity category
  - CoCo
State-of-the-art

● not technical problems!
● 2.5 thousand Identity Providers
● improving coverage has resulted in minimum requirements
What can be done

- create a tool that simplifies life of service providers
  - monitoring
  - reporting issues
What can be done

● create a tool that simplifies life of identity providers
  ○ once attribute release fixed, fix it for all CLARIN service providers
Attribute Aggregator

- software that collects names of attributes that were released by an Identity Provider to a Service Provider and processes them
Attribute Aggregator

- script that can be integrated with the most used federation software - Shibboleth
- script that can be used with any federation software
- web application that collects and visualises the results
CLARIN+ attribute aggregator

9 participating service providers
- 1x LINDAT/CLARIN
- 1x CLARIN.IT
- 1x CLARIN.SI
- 2x CLARIN-D
- 3x CSC-IT Center for Science
- 1x CLARIN-ERIC

PLEASE JOIN!
CLARIN+ attribute aggregator

- [https://lindat.mff.cuni.cz/services/aaggreg/](https://lindat.mff.cuni.cz/services/aaggreg/)
- open source
  - [https://github.com/ufal/clarin-sp-aaggregator](https://github.com/ufal/clarin-sp-aaggregator)
  - [https://github.com/ufal/lindat-aai-attribute-aggregator](https://github.com/ufal/lindat-aai-attribute-aggregator)
- deployed at the end of April 2016
  - imported statistics from LINDAT/CLARIN
IdP count increased to 181
  ○ at least one user from that IdP has tried to connect to one of the 9 service providers
● 10+ IdPs have been “fixed”
● a few federation issues have been identified
CLARIN attribute aggregator
CLARIN attribute aggregator
CLARIN attribute aggregator

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- support: shibboleth@uni-jena.de

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Identity Provider for Students and Employees of Friedrich-Schiller-Universität Jena


VS.

CLARIN.SI Repository

- administrative: repo-admin@clarin.si
- technical: repo-technical@clarin.si
- support: repo-help@clarin.si

CLARIN.SI: Digital repository and services of the CLARIN language research infrastructure, hosted at Jožef Stefan Institute, Ljubljana, Slovenia

Registrar:

- https://www.geant.net/uri/dataprotection-code-of-conduct/1
- http://refeds.org/category/research-and-scholarship
CLARIN attribute aggregator

On behalf of one of the Service Providers from CLARIN Service Provider Federation (SPF) [1] we would like to inform you that users from your home organisation tried to access a protected service or resource but were unable to do so because your Identity Provider has not released all the mandatory attributes.

All the Service Providers in the CLARIN SPF are:
1) implementing the GÉANT Data Protection Code of Conduct [2];
2) are members of the REFEDS Research and Scholarship Entity Category [3];
3) are CLARIN members and have the http://clarin.eu/category/clarin-member Entity Category which you can use for filtering.

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Aggregator features

● collects **attribute names**
● identifies problematic connections
  ○ no attributes
  ○ incorrect behaviour
● issue reporting with one click
● statistics
Future (on-going) work

- harmonise entity category used to distinguish CLARIN service providers in SPF
- optional integration with Attribute Checker

https://wiki.edugain.org/How_to_configure_Shibboleth_SP_attribute_checker
Thank you