CLARIN AAI and DARIAH AAI Interoperability

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Abstract

1. CLARIN and DARIAH and CLARIAH
2. Authentication & Authorization Infrastructures (AAI) and AARC
3. CLARIN AAI
4. DARIAH AAI
5. Interoperability – Achieved and Challenges
6. Interoperability – Future
CLARIN, DARIAH, CLARIAH

- In Germany both humanities ESFRIs, CLARIN and DARIAH had been funded separately (DARIAH-DE and CLARIN-D)
  - On technical infrastructure level, these two national projects co-operated from the beginning
  - Especially in the field of AAI, DARIAH-DE also co-operated with CLARIN-EU on technical and political level
- Now they have merged to CLARIAH-DE
Authentication and Authorization Infrastructures

- National Research and Education Networks built AAI Federations, based on OASIS SAML standard
- AAI Federation establishes Trust between
  - Organisations using Identity Providers (IdPs) and
  - Online Resources protected by Service Providers (SPs)
AAIs and AARC

- Defining an Authentication and Authorization framework for international research and collaboration communities
  - One Blueprint architecture
  - One set of Policies
  - One Collection of training materials
- Leveraging the eduGAIN meta-Federation
- Integrating communities into general research infrastructures like EGI and EUDAT
- AARC Blueprint Architecture: Based on a Proxy model that attaches many Community SPs to eduGAIN IdPs and generally makes life much easier
Release of User Attributes

- How to convince IdPs to release (personal) attributes?
- By convincing the IdP that the SP is trustworthy via SAML Metadata entity categories
  - Research and Scholarship (R&S): This SP is proven to belong to the research community and has no commercial interests in the data
  - GÉANT Data Protection Code of Conduct V1: This SP commits to follow the former European data protection rules. A GDPR compliant and internationalized Version 2 is in the making.
  - Clarin Member: This is an SP from the CLARIN Community
CLARIN AAI

DARIAH-DE

Federation A
- IdP
- IdP
- SP
- IdP
- IdP
- SP

DFN-AAI
- SP
- SP
- SP
- IdP
- IdP
- IdP
- SP

CARLIN "homeless" IdP

eduGAIN

DARIAH and CLARIN AAI

7 / 12
DARIAH AAI 2.0

DARIAH Registration and Group Management

R&S
CoCo

SP

CoCo

CoCo

CoCo

CoCo

CoCo

CoCo

SP

DARIAH AAI Proxy

IdP

CoCo SUPPORT

IdP

IdP

IdP

IdP

DARIAH "homeless" IdP

DFN-AAI

SP

DARIAH SPs
Release of User Attributes

- In CLARIN
  - SPs carry a "clarin-member" entity attribute, and CoCo as well.
  - CLARIN customer IdPs need supporting rules.

- In DARIAH
  - Proxy SP carries "CoCo" and "R&S" entity attribute.
  - Any eduGAIN IdP can connect to the Proxy SP, but...
  - ...attribute release depends on IdP's CoCo / R&S support, or bilateral agreements with IdPs.
### Interoperability Achieved and Challenges

<table>
<thead>
<tr>
<th></th>
<th>CLARIN Services</th>
<th>DARIAH Services (that use the AAI Proxy)</th>
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<tbody>
<tr>
<td>DARIAH &quot;homeless&quot; IdP</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>CLARIN IdP</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>eduGAIN IdPs, non-CLARIN-customers</td>
<td>YES (if CoCo/clarin-member Support, or bilateral agreement)</td>
<td>YES (if CoCo/R&amp;S-Support, or bilateral agreement incl. opaque ID)</td>
</tr>
<tr>
<td>CLARIN customer IdPs (in eduGAIN)</td>
<td>YES</td>
<td>YES (if CoCo/R&amp;S-Support, or bilateral agreement incl. opaque ID)</td>
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</table>
Interoperability – Future Work

- DARIAH Proxy SP should be registered as normal CLARIN service ("clarin-member") with federations (not just with CLARIN IdP)
- DARIAH is working (FIM4D WG) to connect more services with the AAI proxy
- Approach currently known DARIAH IdPs to support clarin-member entity attribute
- CLARIN IdPs currently not in eduGAIN should opt in via their national federations
Thanks!

https://www.daasi.de

https://de.dariah.eu/en/startseite