

Authentication and Authorisation for Research and Collaboration

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AARC – Authentication and Authorisation for Research and Collaboration



- Started on 1 May, 2015
- Two-year EC-funded project
- 20 partners
 - NRENs, e-Infrastructure providers and Libraries as equal partners
- About 3M euro budget
- https://aarc-project.eu/
- Working now on the proposal for AARC2

And where is this coming from????



- The growth of demand for federated access
- Many use cases for ID Feds
- Various existing AAIs

Nice! BUT...



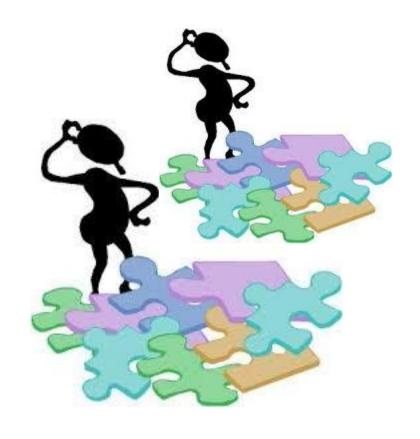


It would be nicer if there was also compatibility & interoperability



Common challenges





Attribute aggregation

User friendliness

Credential translation

Attribute release

Levels of Assurance

Homeless users

Bridging Communiti Non-webbrowser

es



AARC addresses these challenges of interoperability and functional gaps.



AARC - Objectives



Improve adoption of federated access

Pilot components to integrate existing AAIs

Making identities 'consumable' by different e-Infrastructures to access

different services

Define policy frameworks and pilot them

Develop Training packages

AARC - Workplan



- OUTREACH and TRAINING
 - To lower entry barriers for organisations to join national federations
 - To improve penetration of federated access

- TECHNICAL and POLICY Work
 - To develop an integrated AAI built on production services (i.e. eduGAIN)
 - To define an incident response framework to work in a federated context
 - To agree on a LoA baseline for the R&E community
 - To pilot new components and best practices guidelines in existing production services

Approach



Use existing einfrastructures in the delivery chain Deliver a crossdiscipline framework built on federated access

Liaison with existing e-Infras, communities and initiatives to get feedback on the results

Almost a year has passed...



...and here is where we stand now.

Training and Outreach





Training and Outreach



- Document describing the approach to the training MNA2.1 Guideline document for AARC training materials
 - https://aarc-project.eu/documents/milestones/
- Report on the identified target groups for training and their requirements
 - https://aarc-project.eu/wp-content/uploads/2015/04/AARC-DNA2.1.pdf
- First two online modules: Federation 101 and SP training material
 - https://aarc-project.eu/documents/training-modules/
- First two trainings based on the modules about to be delivered

Architectures for an integrated and interoperable AAI



- Finalising the first draft of the Blueprint Architecture for interoperable AAIs for Research Infrastructures and e-Infrastructures.
- This draft presents a high level architectural pattern that includes all the necessary functional components in order to build integrated and interoperable AAI solutions on top of the eduGAIN.
- It is in its final stages and will be made available to the AARC stakeholders any day now.

Architectures for an integrated and interoperable AAI



Furthermore working:

- on the problem of Guest Identities and how it can be addressed. Looking to Identity
 Providers of "last resort", but also at the integration of social network and e-Gov IDs as a
 mean to cover the users in the long tail of science, who in many cases do not have
 institutional IDs.
- on the topics of Attribute Management, Release and Aggregation and how these can be addressed from the point of view of the Attribute Authorities, the RIs and the e-Infrastructures
- on the topics of non-web access and credential delegation. Although these topics often go together, this is not always the case. At the moment the WP is analysing existing solutions and architectural pattern for both topics.

Pilots



Requirements
User Community

Deliverable DJRA1.1:
Analysis of user community and service provider requirements

Discount Community and Service provider requirements

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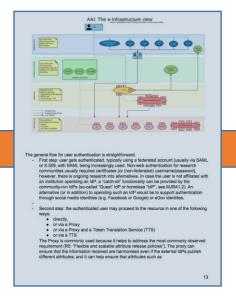
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Oracle Service provider prov

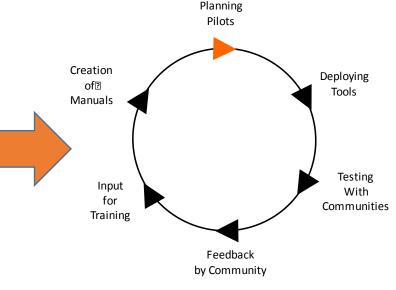
Overview Available AAI Components



Draft Blue-Print Architecture



Running Pilots
With Communities

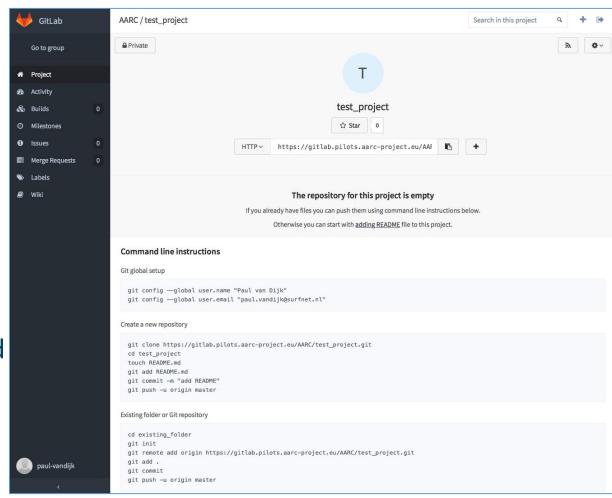


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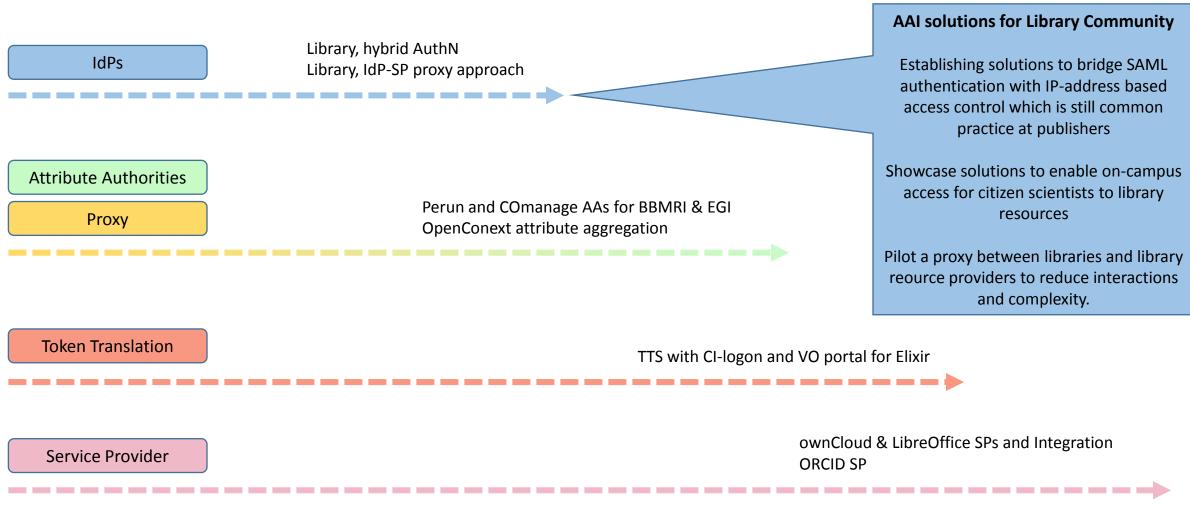
Established a pilot platform <u>pilots.aarc-project.eu</u>



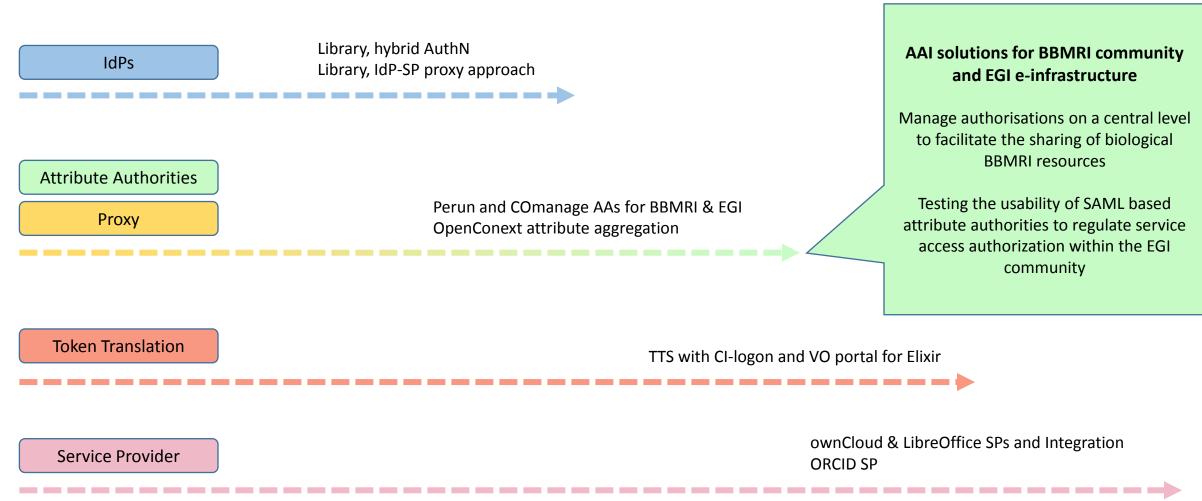
- A staging area for our services
- Technical platform delivered by skeanos
- >20 VMs instantiated
- Using Ansible scripts for deployment
- SimpleSAMLphp DIY IdP available
- Gitlab for collaborative coding, deployment and testing: gitlab.pilots.aarc-project.eu
- Online support by SURFnet staff



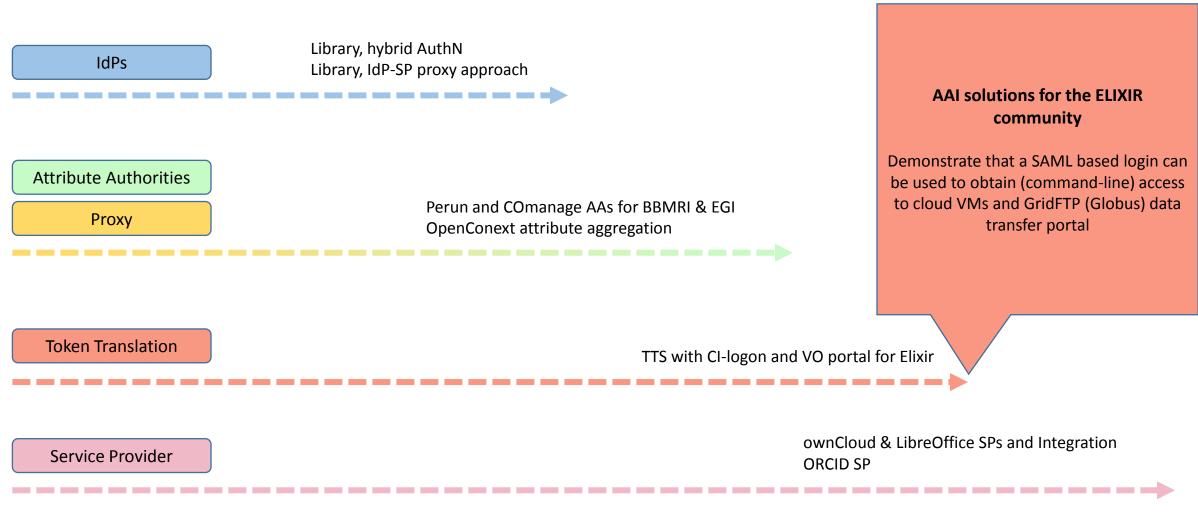




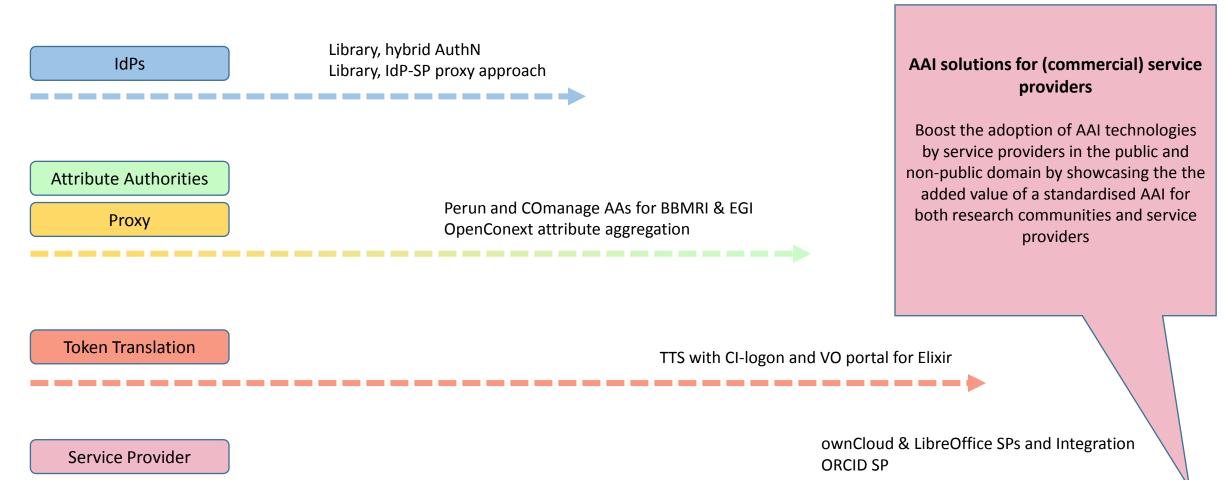












AARC 2



We are preparing the follow-up of AARC!



AARC 2



- Support User-Driven Innovation of Trust and Identity
 Enable federated access for use-cases that meet data intensive and cross e-Infrastructure requirements
- Deploy AARC/AARC2 Results
 Support e-Infrastructures and research infrastructures to deploy AARC/AARC2 results to enable seamless service delivery to the users.
- Training and outreach
 Offer different level of training and reach out to different communities to promote AAI adoption when building new services.

Thank you Any Questions?

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https://aarc-project.eu

