The AARC Project – First 6 months

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Service orientation to data and high-performance computing infrastructures

Bari, 12 November 2015
AARC Facts

Authentication and Authorisation for Research and Collaboration

- Two-year EC-funded project
- 20 partners
  - NRENs, e-Infrastructure providers and Libraries as equal partners
- About 3M euro budget
- Starting date 1st May, 2015
- https://aarc-project.eu/
AARC Vision and Objectives

Avoid a future in which new research collaborations develop independent AAI

Impacts

- Create a cross-e-infrastructure ‘network’ for identities
- Reduce duplication of efforts in the service delivery
- Improve the penetration of federated access

Outputs

- Design of integrated AAI built on federated access
- Harmonised policies to easy cross-discipline collaboration
- Pilot selected use-cases
- Offer a diversified training package
Integration, policy harmonisation, piloting and training

Design an integrated AAI built on production infrastructures

Use existing e-infrastructures in the delivery chain

Work with e-infras and user communities to solve existing challenges, pilot use-cases and get feedback on the results
AARC Work areas

- Architecture Design
- Policy and best practices harmonisation
- Pilots and results validation

Training and Outreach
First Results
Training and Outreach

- First document describing the approach to the training:
  - [https://aarc-project.eu/documents/milestones/](https://aarc-project.eu/documents/milestones/)

- Report on the identified target groups for training and their requirements

- End of the month the first online module on federated access
Policy and Best Practices Harmonisation

• Security Incident on FIM
  - To agree on a generic security incident response procedure for federations
  - Sirtfi Trust Framework to be finalised at the next I2 Tech Exc

• Sirtfi WG:
  https://wiki.refeds.org/display/GROUPS/SIRTFI

• LoA work
  - To agree on a sustainable LoA framework
  - AARC (through surveys and FIM4R) looking at immediate and longer-term need by SPs and RPs:
    https://wiki.geant.org/display/AARC/LoA+survey+for+SP+communities
  - Key challenge is cost of operation, and who bears this costs

• R&E federations and their IdPs looking at the ‘service aspect’ of providing assurance
Architecture Design

- Analysis of requirements
- Analysis of AA technologies
- Attribute Authorities – Token Translation
- Guest Identities
- Blueprint Architecture

Timeline:
- Sep 2015
- Dec 2015
- Apr 2015
- Jul 2016
- Apr 2017
Architecture Design – Analysis of requirements

Past Activities
FIM4R & TERENA AAA Study

AARC Surveys
BioVel, CLARIN, D4Science, DARIAH, EISCAT, EUDAT, FMI, PSNC, UMBRELLA, ...

AARC Interviews
EGI, ELIXIR, EUDAT, GN4, LIBRARIES (UKB), ...

AARC Requirement Analysis
(available end of Sept.)
Architecture Design – Analysis of requirements

1. User Friendliness
2. Homeless Users
3. 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
8. Persistent & Unique User Identifiers
9. 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
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Architecture Design – Next steps

• Continue the interviews with the AARC stakeholders and the parallel work on Guest Identities and Attribute Authorities (AA) & Token Translation Services (TTS)

• End of October first internal draft release of AARC High Level Architecture

• End of December: Analysis of available AA technologies

• January – February: Consultation with stakeholders around the AARC High Level Architecture

• April: Release work on Guest Identities, AAs and TTS

• July: 1st version of the AARC AAI Architecture Framework
Preparation for AARC 2

- Although the AARC project has only started for a few months, we have started the preparation for AARC2

- focus on user-driven innovation and pilots on existing e-Infrastructures to respond to user-community challenges

- Help us identifying use-cases:

  https://docs.google.com/a/terena.org/forms/d/1xHaCINRaizjWfY6K-4-1O9z81NAyBsmxtJNSNGXSICU/viewform
Thank you
Any Questions?
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http://aarc-project.eu/