



Authentication and Authorisation for Research and Collaboration

Federated Identity Management

Protecting Research Communities (AARC Guidelines)

Nicolas Liampotis (GRNET), *et al.* for the AARC Community

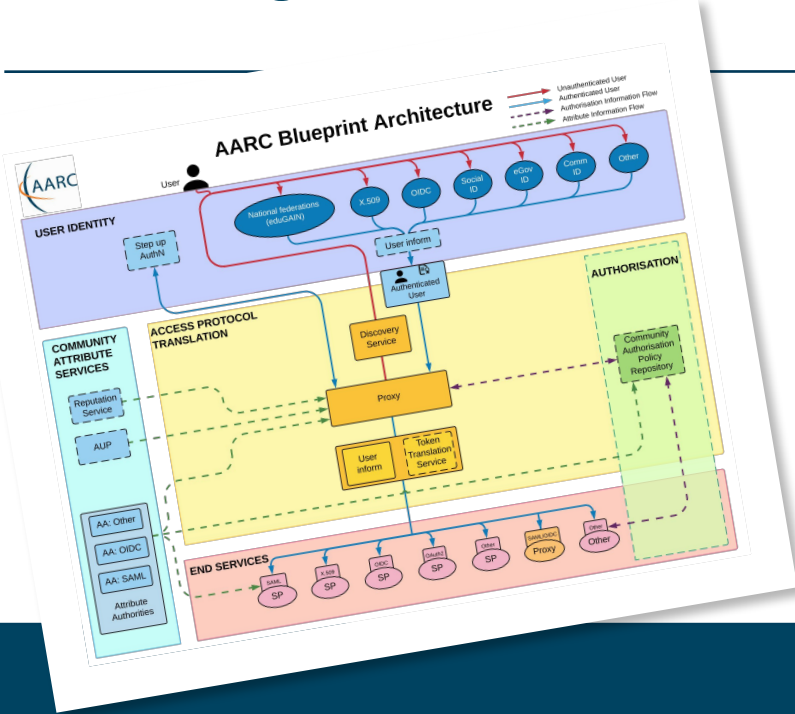
RDAVP17

21 Apr, 2021

Agenda

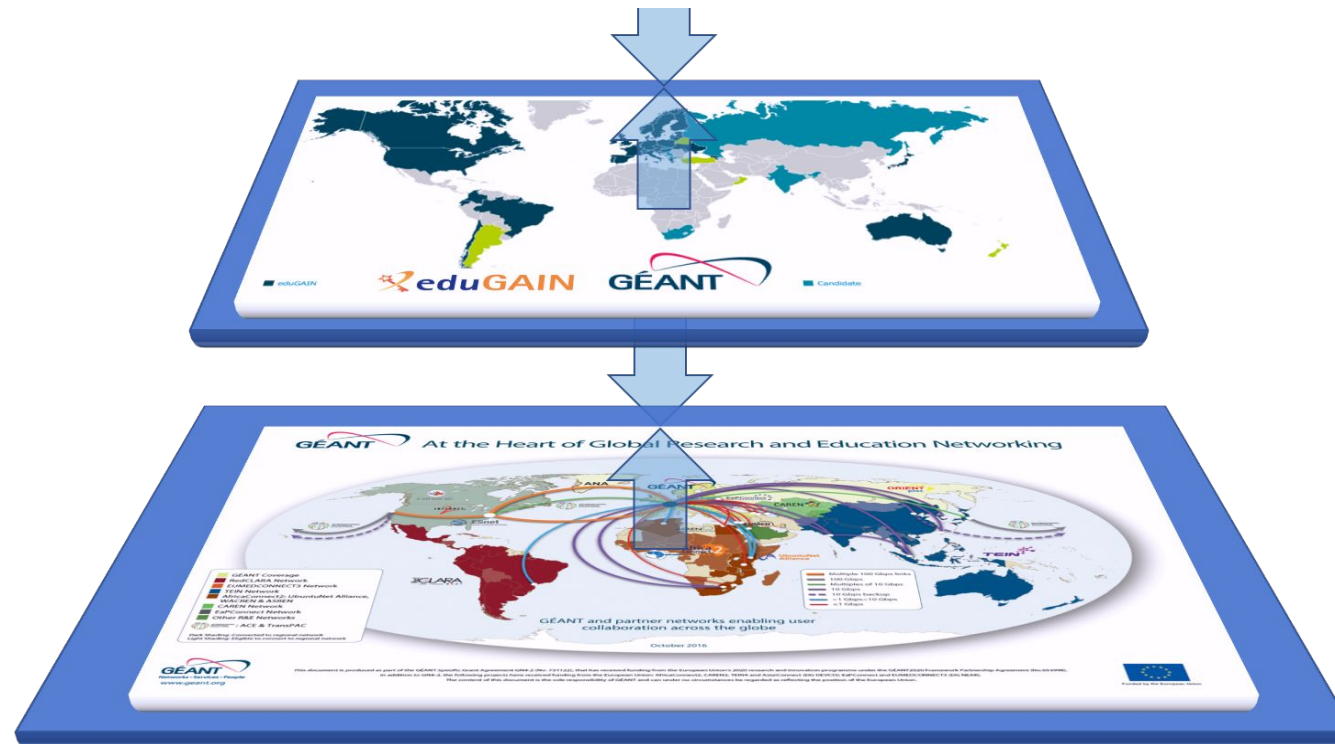
- Introduction to the AARC Blueprint Architecture
- Overview of AARC Guidelines
- Further information

Protecting Research Communities



Introduction to the AARC Blueprint Architecture

AARC Blueprint Architecture - Enabling an ecosystem of solutions on top of eduGAIN



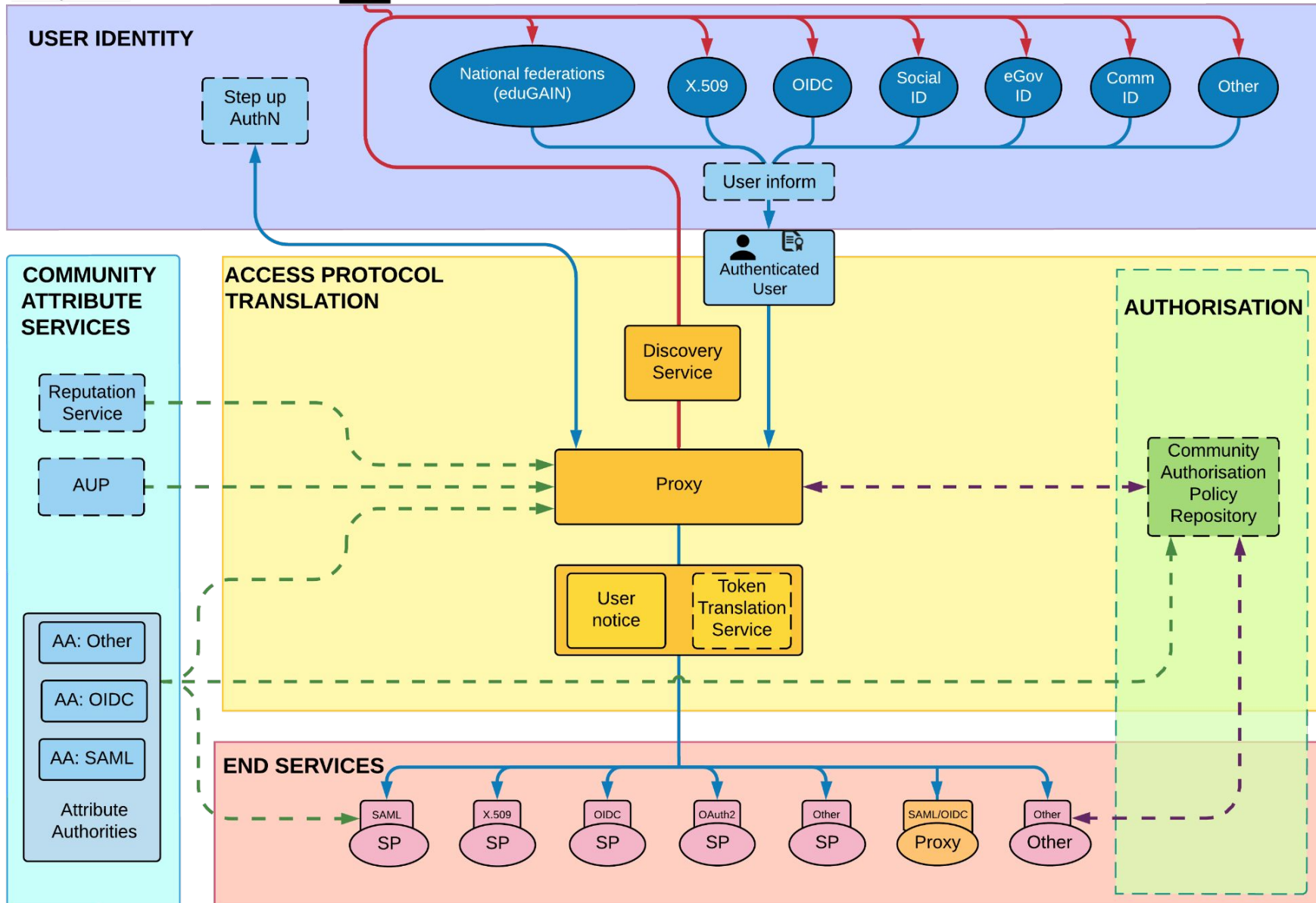
AARC Blueprint Architecture - Enabling an ecosystem of solutions on top of eduGAIN



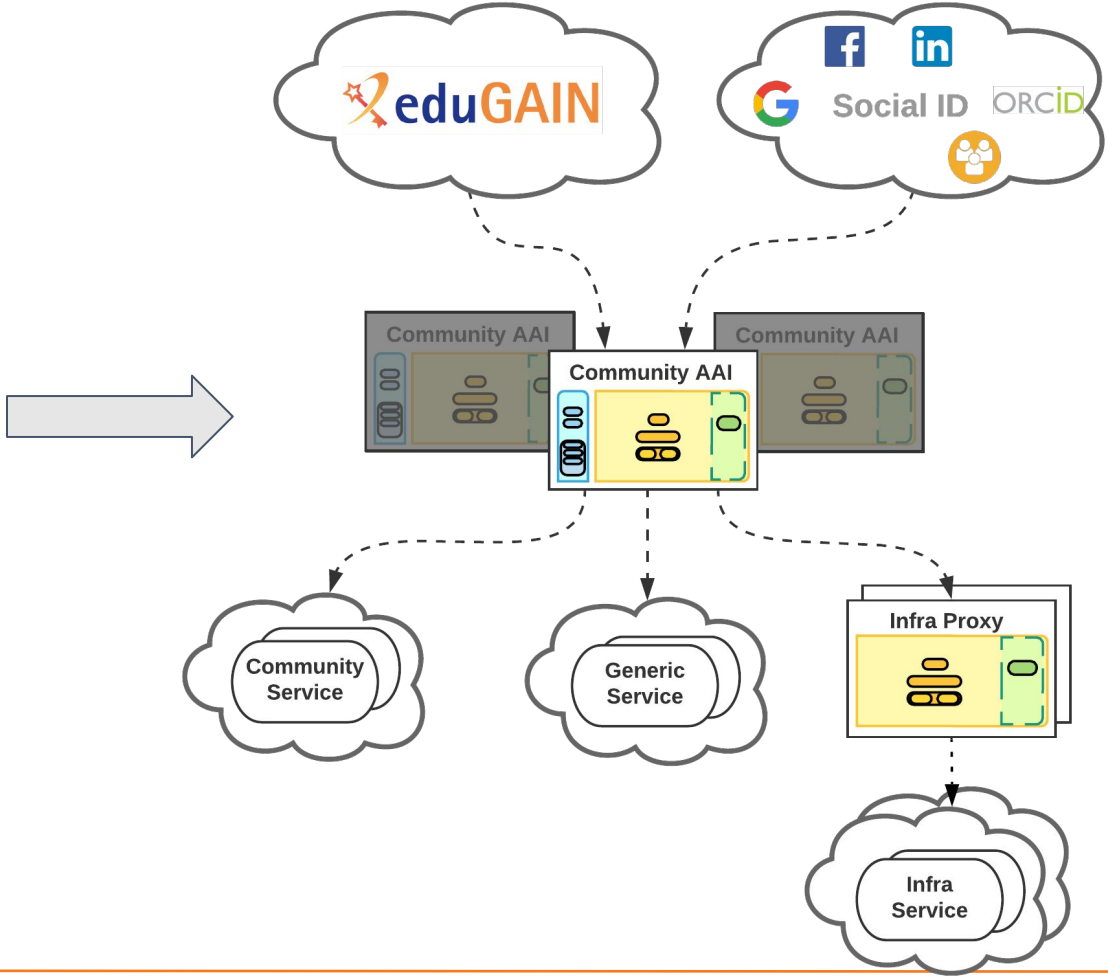
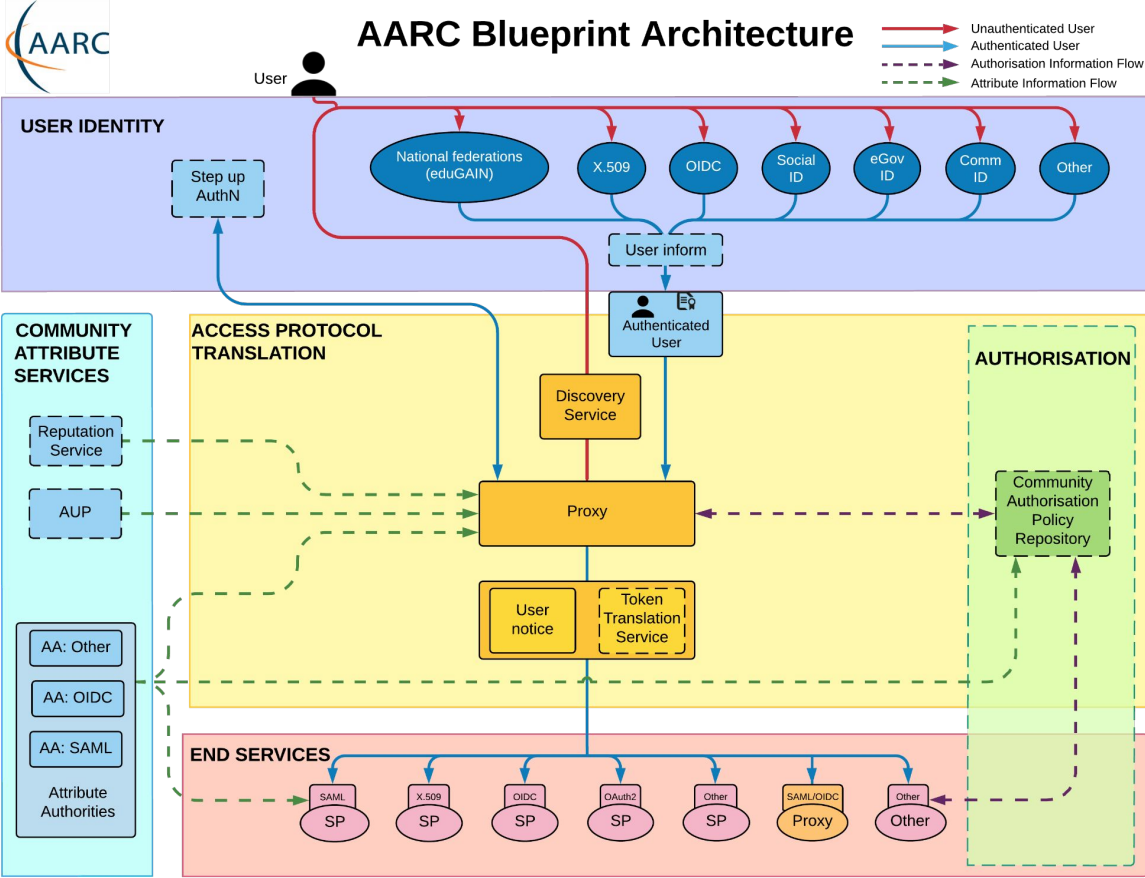


AARC Blueprint Architecture

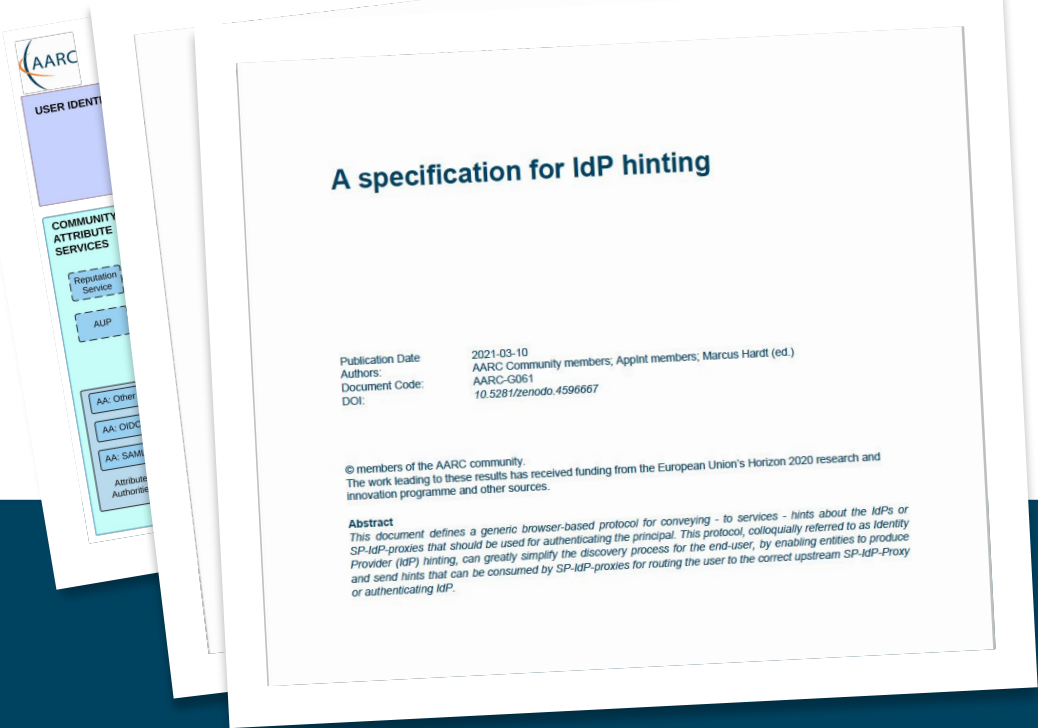
- Unauthenticated User
- Authenticated User
- Authorisation Information Flow
- Attribute Information Flow



How the Community-first approach can help research communities to access resources

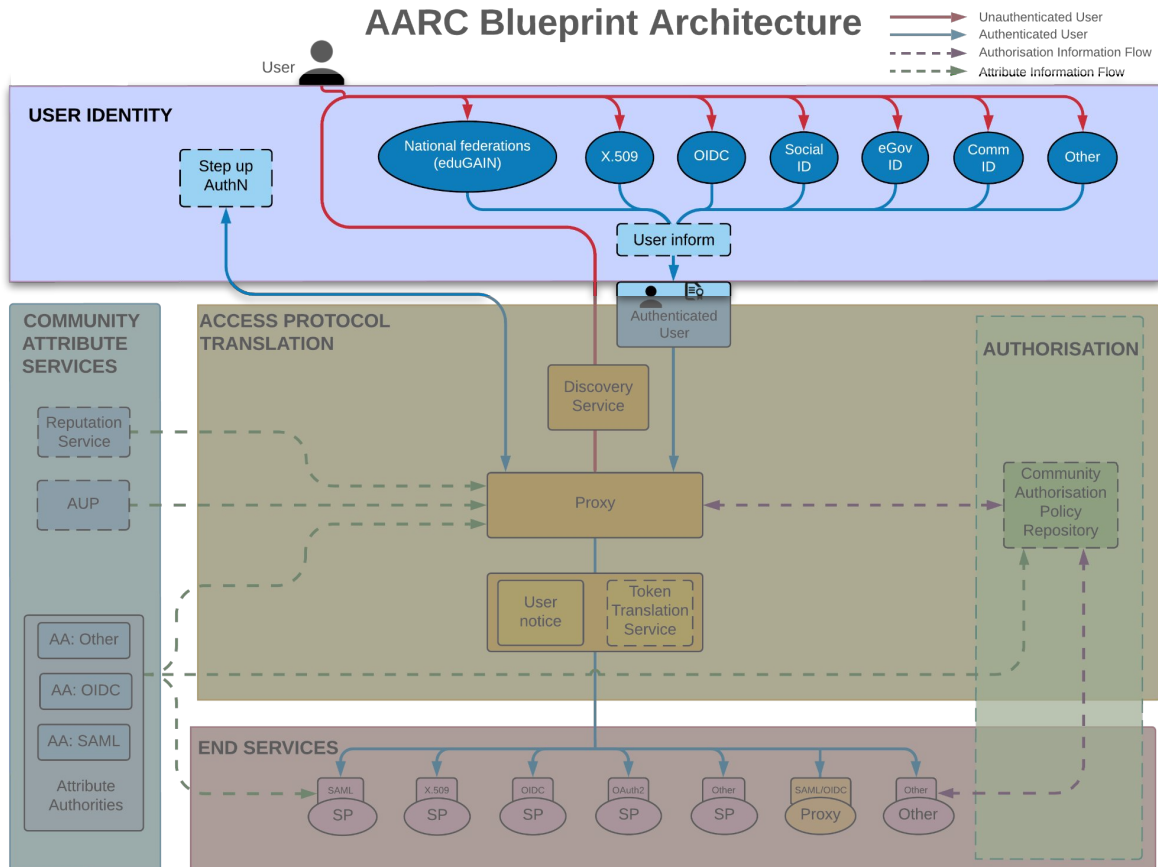


Protecting Research Communities



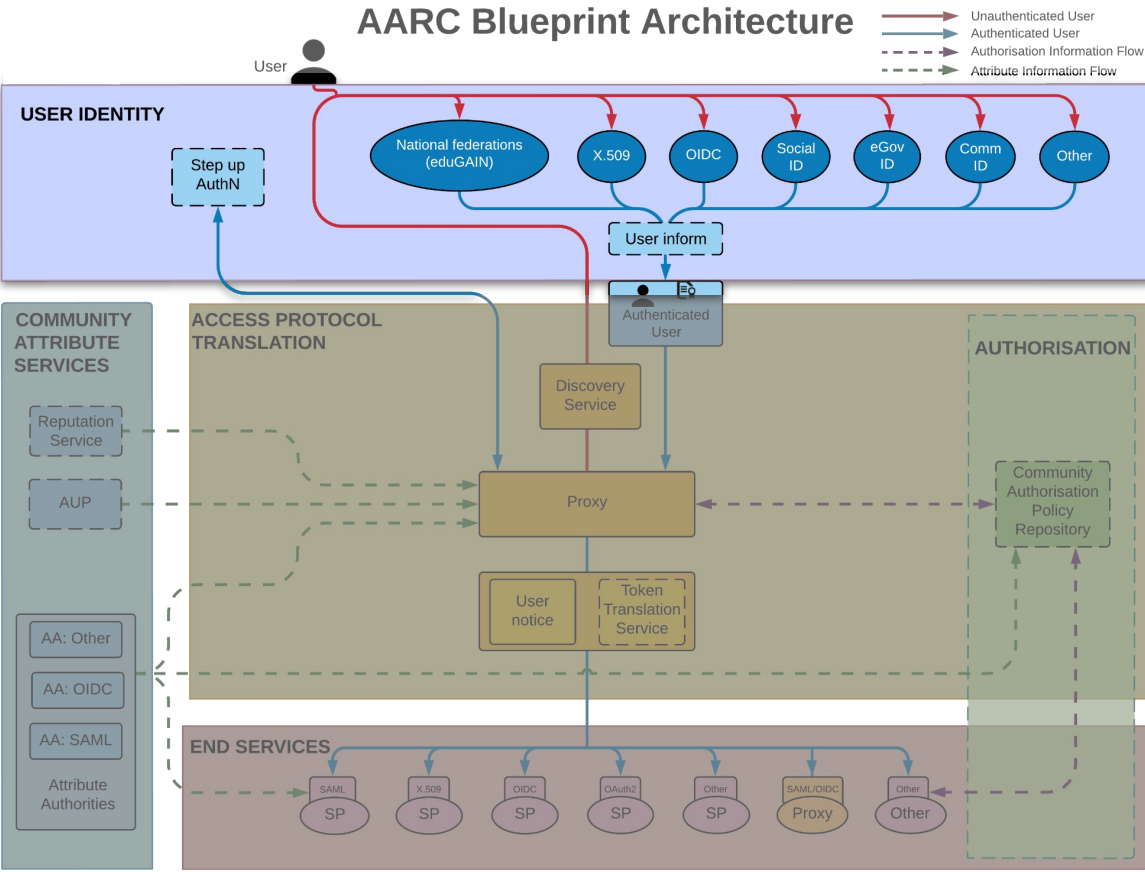
AARC Guidelines

AARC Guidelines: User Identity



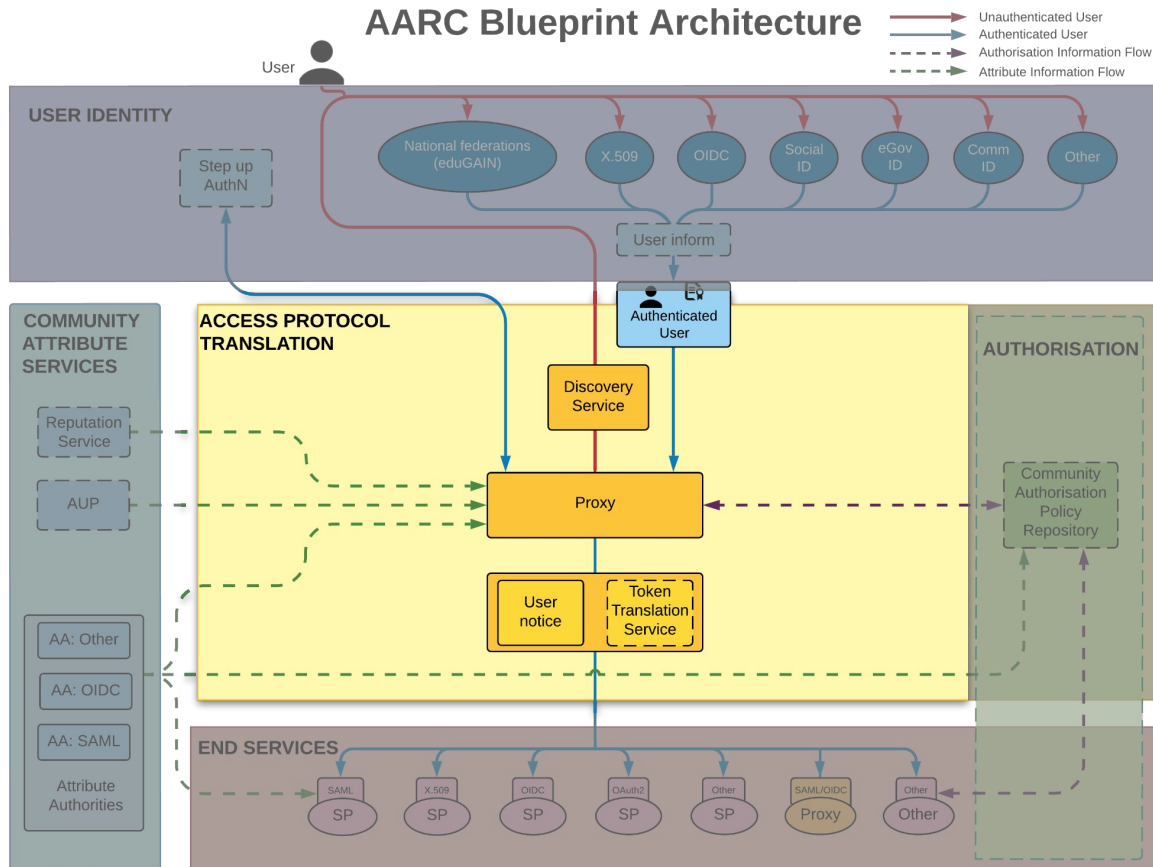
- “How to integrate Social Media Identity Providers?” → [AARC-G008](#)
- “How should users link accounts, and how does that affect Assurance?” → [AARC-G009](#)
- “How should services indicate that they would like users to authenticate with multifactor authentication, and how should the proxy forward that information?” → [AARC-G029](#)

AARC Guidelines: User Identity Assurance



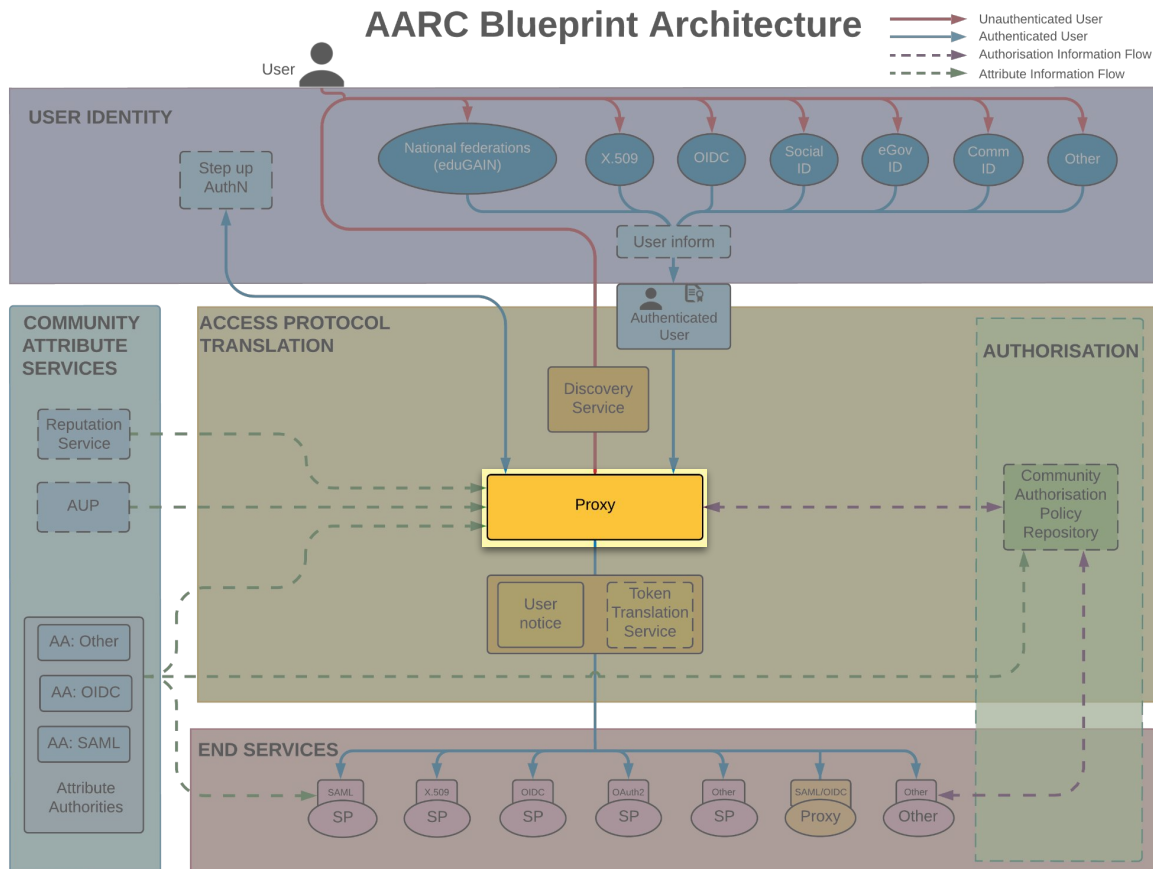
- “How should assurance information of external identities be calculated?” → [AARC-G031](#)
- “What can I say about assurance of identities from social media accounts?” → [AARC-G041](#)
- “How is assurance impacted by account linking?” → [AARC-G009](#)
- “How should assurance information be shared between proxies?” → [AARC-G021](#)
- “Which Assurance Profiles should I use?” → [AARC-I050](#)

AARC Guidelines: Access Protocol Translation



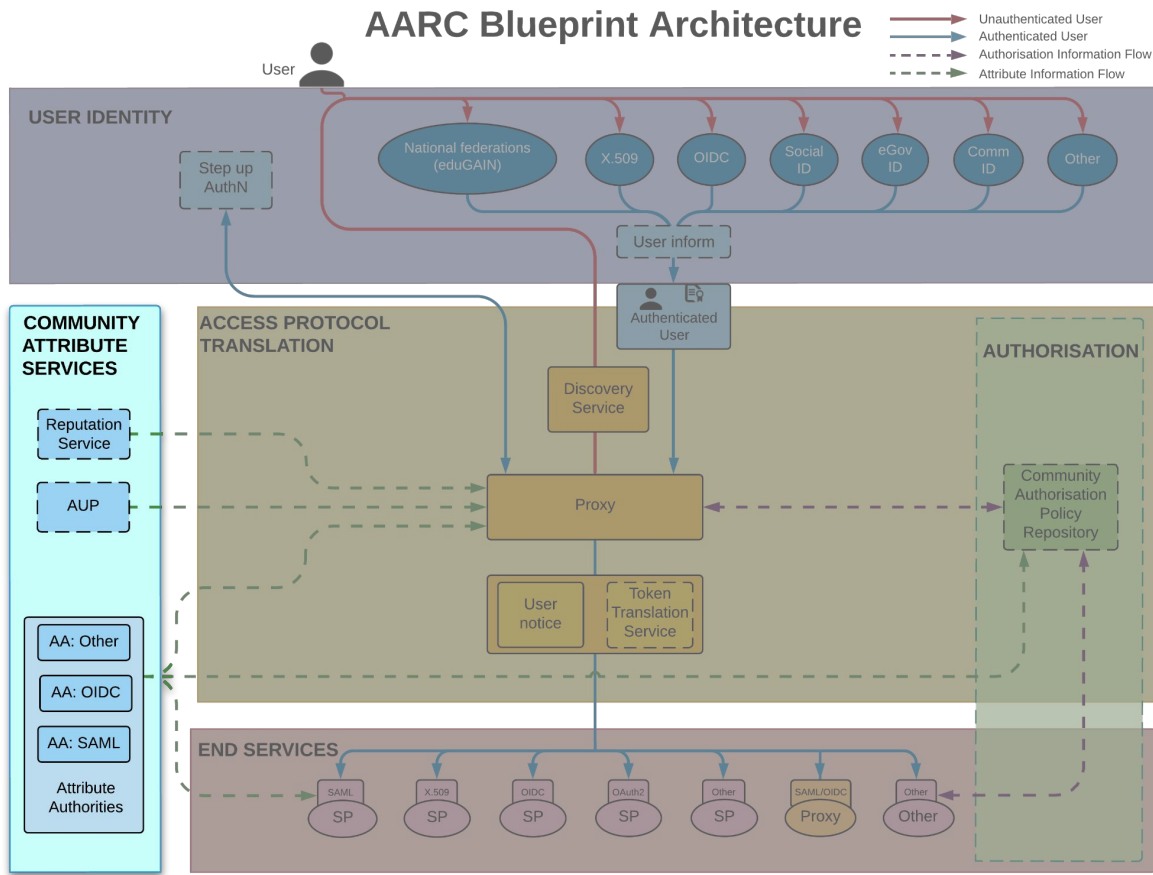
- “Which best practices to follow for Token Translation Services?” → [AARC-G004](#)
- “How to translate Federated Identity information to X.509 certificates?” → [AARC-G010](#)

AARC Guidelines: Access Protocol Translation - Proxy



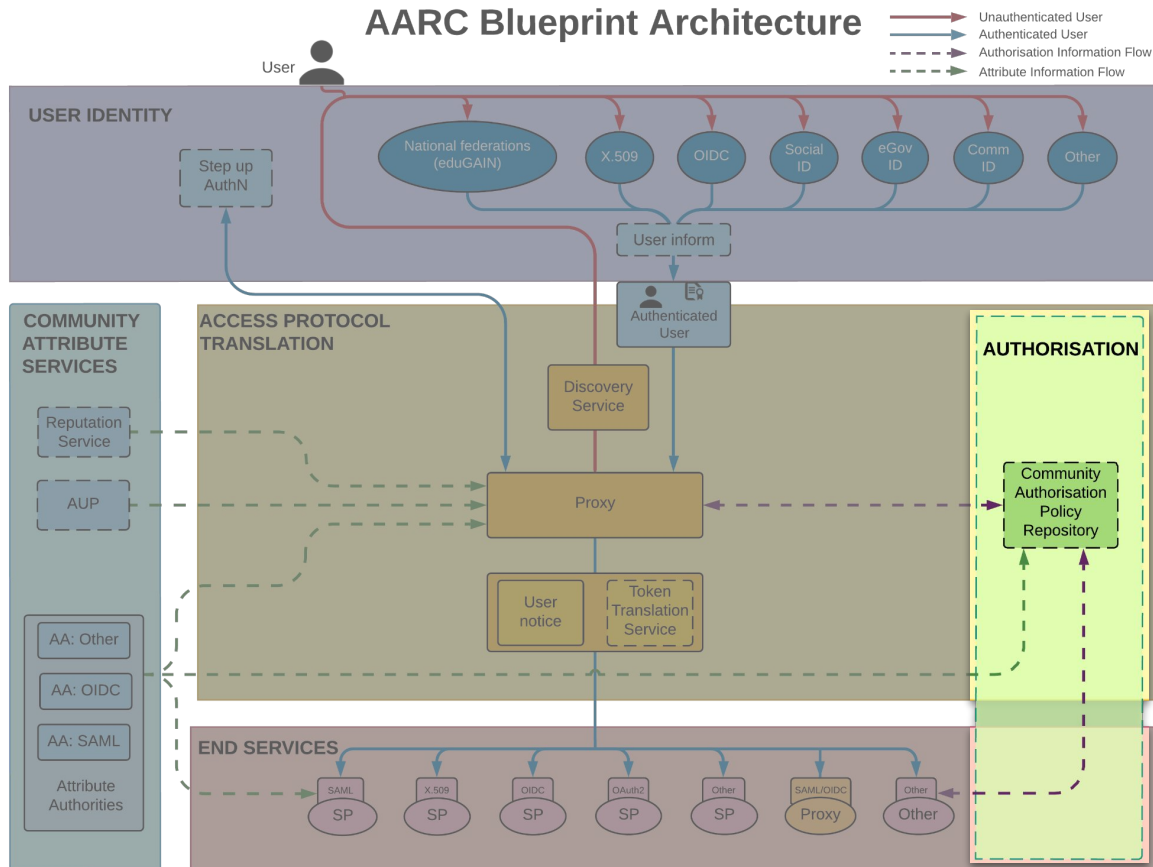
- “How to ensure that the proxy is able to accurately claim that it supports best practices in Identity Federation?” → [AARC-G015](#)
- “How to express assurance information for users when interacting with another proxy?” → [AARC-G021](#)
- “How can the proxy simplify the discovery process for end-users?” → [AARC-G061](#)

AARC Guidelines: Community Attribute Services



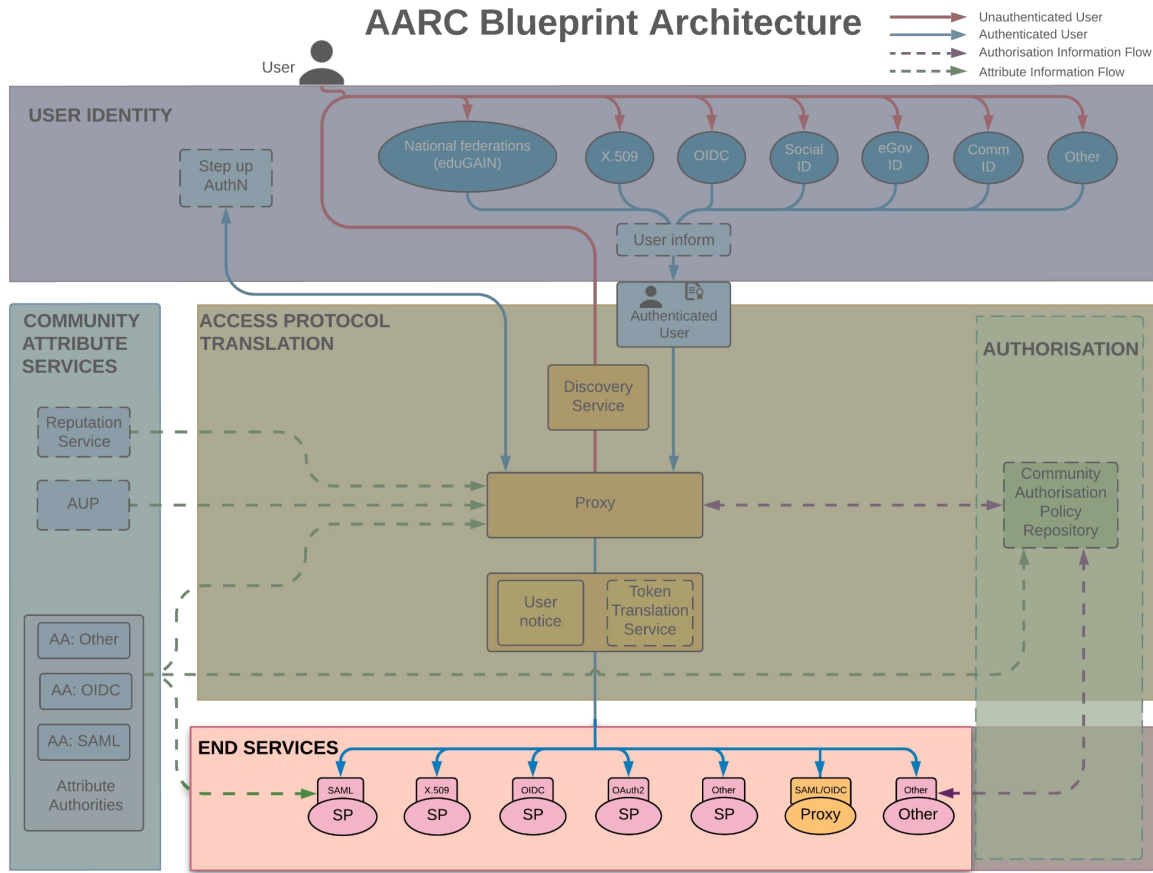
- “How should attributes from multiple sources be aggregated?” → [AARC-G003](#)
- “How should I express the home institute of a user?” → [AARC-G025](#)
- “What are the best practices for running my Attribute Authorities securely?” → [AARC-G048](#)
- “Which Acceptable Use Policy should I use to facilitate interoperability?” → [AARC-I044](#)

AARC Guidelines: Authorisation



- “How to manage authorisation information from multiple sources?” → [AARC-G006](#)
- “How should group and role information be expressed to facilitate interoperability?” → [AARC-G002](#)
- “How should resource capabilities be expressed?” → [AARC-G027](#)

AARC Guidelines: End Services



- “How to handle credential delegation and impersonation to allow my service to act on behalf of the user?” → [AARC-G005](#)
- “My services are not web based, how can I use identities from the proxy?” → [AARC-G007](#)
- “How should Services hint which IdP they would like users to use?” → [AARC-G049](#) & [AARC-G061](#)
- “Which Security practices should I follow?” → [AARC-G014](#)

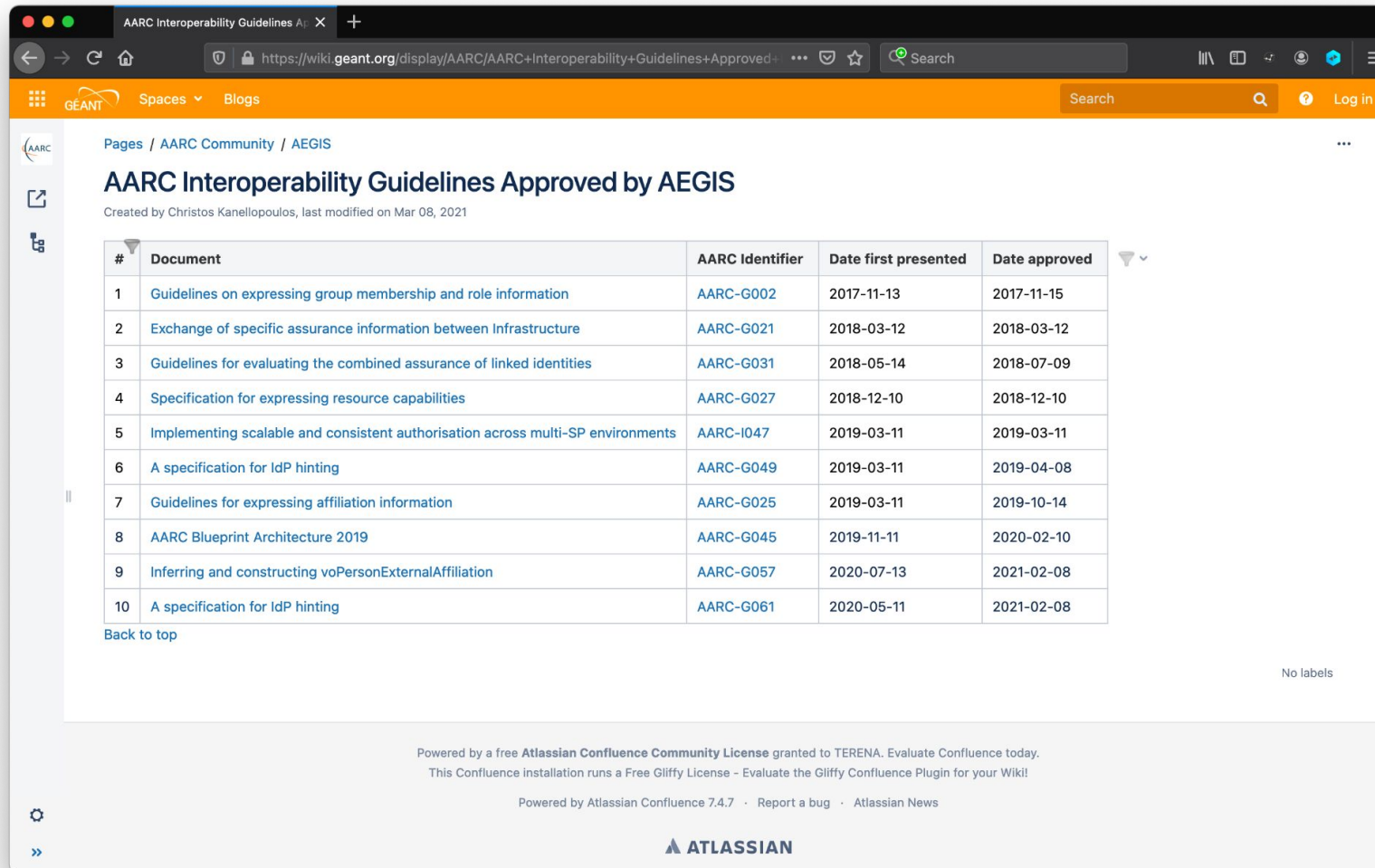
Protecting Research Communities



Further information

AARC Guidelines: Interoperability

<https://wiki.geant.org/display/AARC/AARC+Interoperability+Guidelines+Approved+by+AEGIS>



Pages / AARC Community / AEGIS

AARC Interoperability Guidelines Approved by AEGIS

Created by Christos Kanellopoulos, last modified on Mar 08, 2021

#	Document	AARC Identifier	Date first presented	Date approved
1	Guidelines on expressing group membership and role information	AARC-G002	2017-11-13	2017-11-15
2	Exchange of specific assurance information between Infrastructure	AARC-G021	2018-03-12	2018-03-12
3	Guidelines for evaluating the combined assurance of linked identities	AARC-G031	2018-05-14	2018-07-09
4	Specification for expressing resource capabilities	AARC-G027	2018-12-10	2018-12-10
5	Implementing scalable and consistent authorisation across multi-SP environments	AARC-I047	2019-03-11	2019-03-11
6	A specification for IdP hinting	AARC-G049	2019-03-11	2019-04-08
7	Guidelines for expressing affiliation information	AARC-G025	2019-03-11	2019-10-14
8	AARC Blueprint Architecture 2019	AARC-G045	2019-11-11	2020-02-10
9	Inferring and constructing voPersonExternalAffiliation	AARC-G057	2020-07-13	2021-02-08
10	A specification for IdP hinting	AARC-G061	2020-05-11	2021-02-08

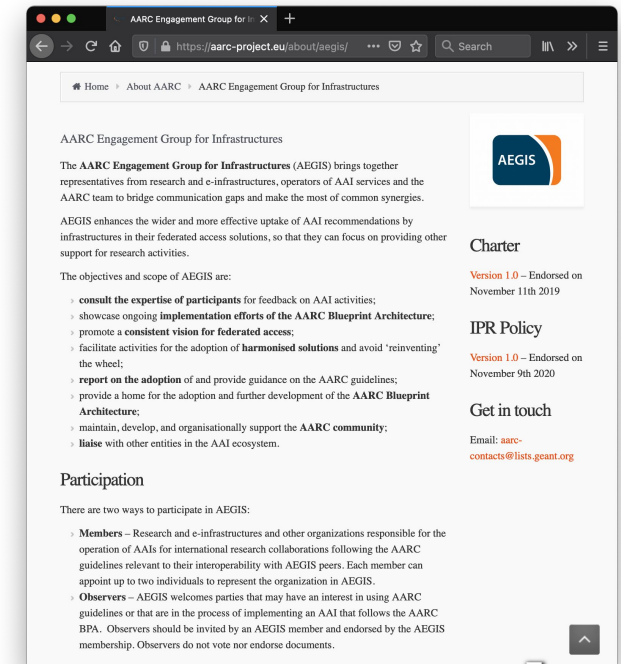
Back to top

No labels

Powered by a free **Atlassian Confluence Community License** granted to TERENA. Evaluate Confluence today.
This Confluence installation runs a Free Giffy License - Evaluate the Giffy Confluence Plugin for your Wiki!

Powered by Atlassian Confluence 7.4.7 · Report a bug · Atlassian News

ATLASSIAN



Home / About AARC / AARC Engagement Group for Infrastructures

AARC Engagement Group for Infrastructures

The **AARC Engagement Group for Infrastructures (AEGIS)** brings together representatives from research and e-infrastructures, operators of AAI services and the AARC team to bridge communication gaps and make the most of common synergies.

AEGIS enhances the wider and more effective uptake of AAI recommendations by infrastructures in their federated access solutions, so that they can focus on providing other support for research activities.

The objectives and scope of AEGIS are:

- consult the expertise of participants for feedback on AAI activities;
- showcase ongoing implementation efforts of the **AARC Blueprint Architecture**; promote a consistent vision for federated access;
- facilitate activities for the adoption of **harmonised solutions** and avoid 'reinventing' the wheel;
- report on the adoption of and provide guidance on the AARC guidelines;
- provide a home for the adoption and further development of the **AARC Blueprint Architecture**;
- maintain, develop, and organisationally support the **AARC community**;
- liaise with other entities in the AAI ecosystem.

Charter
Version 1.0 – Endorsed on November 11th 2019

IPR Policy
Version 1.0 – Endorsed on November 9th 2020

Get in touch
Email: aarc-contacts@lists.geant.org

Participation

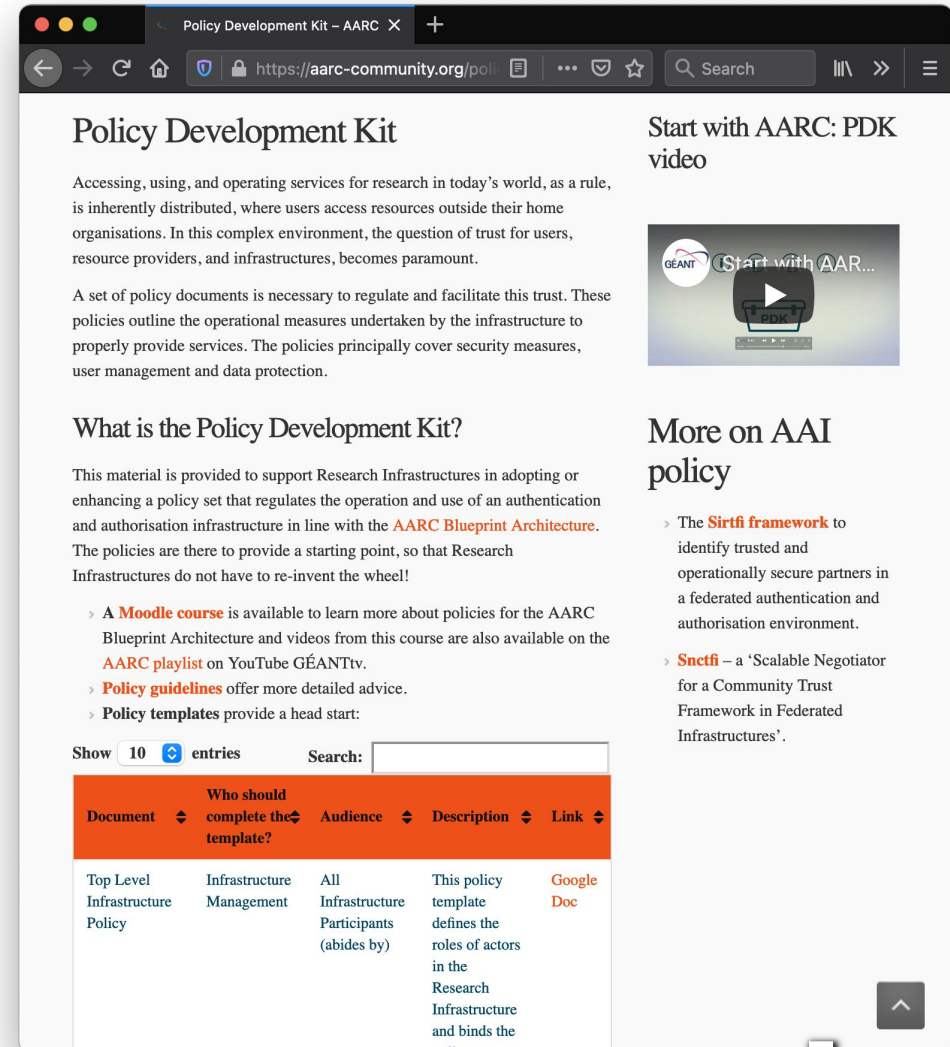
There are two ways to participate in AEGIS:

- Members** – Research and e-infrastructures and other organizations responsible for the operation of AAls for international research collaborations following the AARC guidelines relevant to their interoperability with AEGIS peers. Each member can appoint up to two individuals to represent the organization in AEGIS.
- Observers** – AEGIS welcomes parties that may have an interest in using AARC guidelines or that are in the process of implementing an AAI that follows the AARC BPA. Observers should be invited by an AEGIS member and endorsed by the AEGIS membership. Observers do not vote nor endorse documents.

AARC Guidelines: Policies

Need help with the policies you need to develop?

- Take a look at the [Policy Development Toolkit](#) which provides a set of templates



The screenshot shows a web browser window displaying the 'Policy Development Kit' page on the AARC website. The page includes an introduction to the kit, a video titled 'Start with AARC: PDK video', and a section titled 'More on AAI policy' with links to 'The Sirtfi framework' and 'Snctfi'. At the bottom, there is a table listing policy documents.

Policy Development Kit

Accessing, using, and operating services for research in today's world, as a rule, is inherently distributed, where users access resources outside their home organisations. In this complex environment, the question of trust for users, resource providers, and infrastructures, becomes paramount.

A set of policy documents is necessary to regulate and facilitate this trust. These policies outline the operational measures undertaken by the infrastructure to properly provide services. The policies principally cover security measures, user management and data protection.

What is the Policy Development Kit?

This material is provided to support Research Infrastructures in adopting or enhancing a policy set that regulates the operation and use of an authentication and authorisation infrastructure in line with the [AARC Blueprint Architecture](#). The policies are there to provide a starting point, so that Research Infrastructures do not have to re-invent the wheel!

- › A **Moodle course** is available to learn more about policies for the AARC Blueprint Architecture and videos from this course are also available on the [AARC playlist](#) on YouTube GÉANTtv.
- › **Policy guidelines** offer more detailed advice.
- › **Policy templates** provide a head start:

Show entries Search:

Document	Who should complete the template?	Audience	Description	Link
Top Level Infrastructure Policy	Infrastructure Management	All Infrastructure Participants (abides by)	This policy template defines the roles of actors in the Research Infrastructure and binds the policy set	Google Doc

Thank you Any Questions?

aarc-connect@lists.geant.org



<http://aarc-project.eu/>



© GEANT on behalf of the AARC project.

The research leading to these results has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No. 730941 (AARC2).