

AARC and eduGAIN: expanding access to online resources for students, teachers and researchers

eduGAIN: unlocking access to global resources



Online services are crucial to research and education. Every service requires an account with a login and password.

Having many passwords is difficult to manage and security is at risk. That is why many research or education institutions provide single online identities to their students and researchers.

But users may also need access to services that are provided by other organisations.

National identity federations solve this problem by bringing together many identity provider institutions, their users, and service providers.

What if users need services that are not available through their national federation?

eduGAIN builds trust between federations so users and services in different countries can interact.

KEY FEATURES

Fully compliant with EU privacy laws:

- user data only known to their home institutions

Global coverage:

- eduGAIN participants span Europe, the Americas and Asia Pacific
- Operated in Europe for the benefit of the global research and education community

eduGAIN GIVES SERVICE PROVIDERS:



a worldwide audience



lower costs per user



with no increased demand for user support

eduGAIN GIVES INDIVIDUAL USERS:



access to a wider range of services



using their own digital identity



with no extra effort

eduGAIN WORLDWIDE



55+
FEDERATIONS

>2.600
IDENTITY PROVIDERS

>1.900
SERVICE PROVIDERS

33M
AUTHENTIFICATIONS
PER WEEK (est)

27M
USERS (est)



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edugain.org



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AARC: supporting international teams of researchers



Many researchers work in international collaborative groups, driven by common goals and grants.

Based in different organisations and countries, they need services that are specific to their research community and are not aligned with their institution identity and permissions.

AARC* addresses the needs of research collaboration communities and virtual organisations so that users can access services based on their project 'membership' role and permissions.

Until recently, each research collaboration has made its own solution for identifying users and their level of permitted access to services.

These solutions cannot always work together, which restricts the opportunity for researchers in different projects to collaborate. And researchers spend time creating these solutions instead of doing their research.

AARC is providing guidelines, policies and architectural blueprints so that research collaborations and e-infrastructures can implement and provide solutions that do work together. AARC is also providing training and testing technical and policy aspects through pilots.

*Authentication and Authorisation for Research and Collaboration

AARC is providing:

Blueprint Architecture



8 organisations using it - 3 e-infrastructures & 5 research infrastructures in life science, clouds, data, networks, computing, astronomy, arts & humanities

Guidelines



17 completed & 9 upcoming on risk management, quality assessment, security & trust, legal aspects, sustainability, technical aspects etc.

Pilots



16 completed & 8 ongoing / planned for research collaborations, e-infrastructures, libraries, researchers without an ID, & to test fundamentals

Training



5 webinars, 6 workshops, online materials for libraries, research infrastructures, e-infrastructure

AARC means research collaborations

- avoid 'reinventing the wheel',
- spend less time,
- spend less money,
- get better connected
- so more researchers have
- safer and more reliable access to
- more services, data, tools and software.



KEY FEATURES

Architecture piloted and implemented:

- scalable and meets the vision of the European Open Science Cloud

AARC best practices enable research collaborations to build an AARC-compliant architecture to share resources. AARC training & outreach supports the deployment of AARC results.

Works with partners & other groups that deploy AARC outputs:

- REFEDS
- Kantara
- EOSC
- GN4-2
- FIM4R
- AEGIS