AAF Technology Roadmap 2019-2021

Subscriber requirements

2019 2020 2021

International connectivity (eduGAIN)

Shib IdP V3 upgrade

Service Catalogue refresh

Service Provider Boost Program

AAF
operational
(enhancements & extensions)

ORCID

eduGAIN enabled tools/software

Rapid IdP

Security & privacy

Federation Tooling

Business Intelligence

Innovation

eduGAIN enhancements

OpenID Connect/OAuth/Social

Advancing HPC authentication

New ORCID Technology (Hub)

Access to sensitive data

Infrastructure

Amazon Web Services (Exploiting AWS capabilities)

Cloud Services (Github, Freshdesk, Dropbox, MailChimp, Slack etc.)

Subscriber requirements			
Activity	ctivity Description		Funded
Internationalisation (eduGAIN – new core attributes, R&S Entity Categories)	Connecting AAF to the global Federation network to enable AAF subscribers to collaborate internationally with other eduGAIN federations.	Active - multiyear activity	AAF operations
Service Provider - Boost Program 2019-2020	The Deast agreement identifies a tennet many of AAF automate teleparate		AAF operations
IdP Shibboleth V3 upgrade	The AAF is working with IdP's to upgrade to Shibboleth V3. This upgrade is because of the end-of-life of V2. The AAF are working with organisations to complete the upgrade to V3.	Active	AAF operations
IdP Shibboleth V4 upgrade	With the release of Shibboleth IdP V4 expected in 2019 the AAF will be working with subscribers to upgrade to the latest version or migrate to the Rapid IdP solution.	Pending release	AAF operations
Service catalogue To enhance the current AAF service catalogue to include a comprehensive list of all Service Providers and additional information about each service listing.		Inactive	AAF operations

AAF Operational (enhancements & extensions)			
Activity	Description	Status	Funded
ORCID	As the Australian ORCID Consortium Lead the AAF provide technical support for all ORCID members. This support includes: administrative support on-boarding members and running webinars/training central technical support contact for ORCID maintaining documentation for the Consortium and technical documentation eduPersonOrcid engagement activities and resources.	Active	AAF operations
eduGAIN enabled tools/software	Extend the Federation Registry to enable eduGAIN metadata flows Add the AAF Virtual Home to eduGAIN as an IdP Add the AAF Attribute Validator to eduGAIN Possible extensions to AAF Status to monitor the eduGAIN metadata source.	Scoping	ТВС
Business intelligence	Central reporting service to provide information on subscriber utilisation of the federation (i.e. what organisations are authenticating to AAF connected research infrastructure and vice versa).	Active	AAF Operations

Rapid Identity Provider	The ARDC funding will further the development and adoption of AAF's Rapid Identity Provider. A managed connection to the federation. AAF Virtual Home enhancements and updates Migration and onboarding tools to increase speed and efficiency of migration Feature development based on user feedback and technology innovation Maintain security and penetration testing	Active	ARDC
Security & Privacy	Ensure AAF's information resources and systems are managed and protected to ensure their security in terms of confidentiality, integrity and availability.	Active	AAF operations
Verification service	The development of the student verification service has been completed. The next phase includes: Releasing VerifID as a product trialling and testing it with the market releasing it to a broader market.	Planning	AAF operations
Federation Tooling	Commence the planning for the next generation of Federation Tooling.	Planning	AAF operations

Innovation			
Activity	Description	Status	Funded
НРС	Advancing HPC (and non-web based) authentication via AAF to meet the broader needs of the Australia's HPC facilities. AAF has already completed phase 1 of this	Scoping	Pawsey funded

	project with Pawsey. Phase 2 will aim to identify current gaps without viable solutions, comparison to international efforts for non-web-based authentication and the benefits to Australia's HPC facilities.		
OpenID Connect /Oauth/Social	Advancing mulit-protocol support with OpenID Connect (OIDC) for Australia's national authentication infrastructure. Identify the success of the service to date compared to other international implementations.	Scoping	No funding
ORCID Hub	This body of work will investigate the demand for organisations to authoritatively assert their relationship with a researcher and the potential need for ORCID attributes within the federation. With ORCID, AAF aims to advance persistent identifiers (PID) for the national research environment.	Scoping	No funding
Multi-factor authentication	Exploring options for higher levels of assurance for the Australian education and research sector to enable secure access to sensitive data via the AAF.	Scoping	No funding
eduGAIN	Significant work is required for AAF to effectively roll out eduGAIN nationally as a mainstream service to Australia's research community. This will enhance international research collaboration through eduGAIN.	Scoping	No funding
Government	Exploration into what is required to enable a full set of partners from education, government and industry to enable access to federated services.	Scoping	No funding

AAF Infrastructure			
Activity	Description	Status	Funded
AWS hosted service		Active	AAF Operations
Cloud Services	GithubFreshdeskDropboxMailchimpWPEngineSlack	Active	AAF Operations