AUSTRALIAN ACCESS FEDERATION

2016 & BEYOND!

AUSTRALIAN
ACCESS FEDERATION

99

ORGANISATIONS

connected to the AAF

CONNECTING OVER 1 MILLION USERS

- 100% of Australian Universities

- State based research support organisations

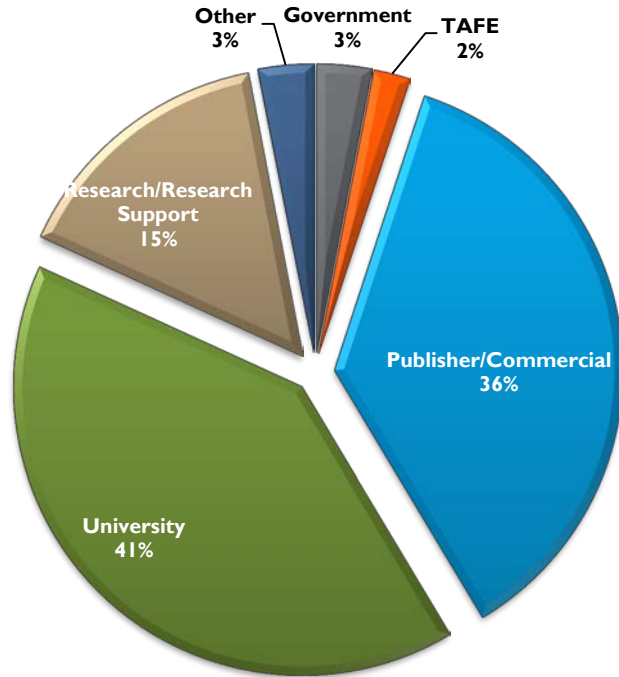- Australia's Research institutes (CSIRO, AAD, ANSTO etc)

- TAFE/VET
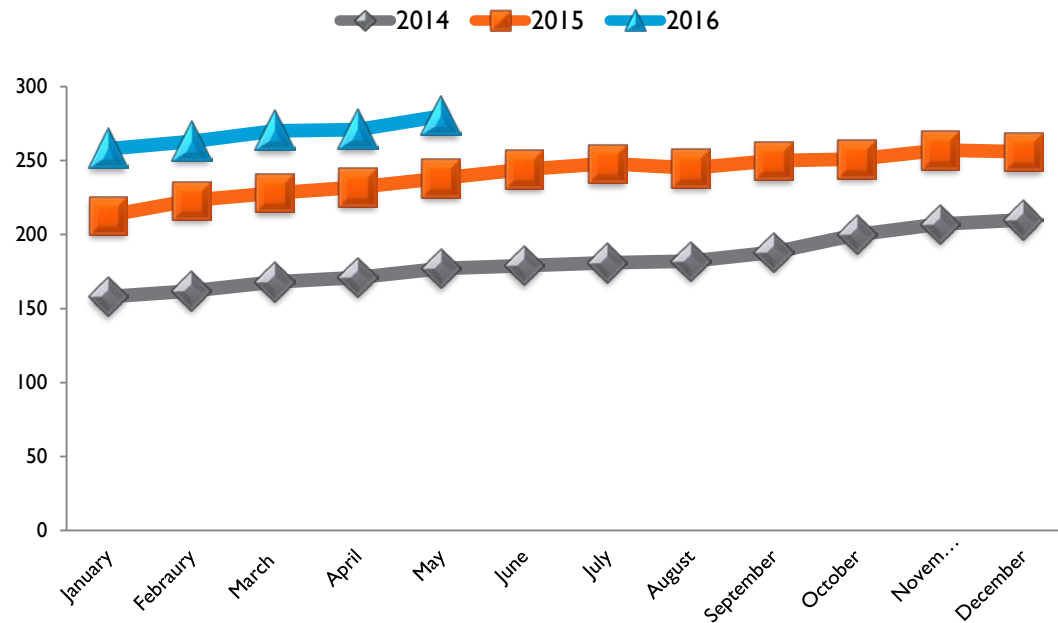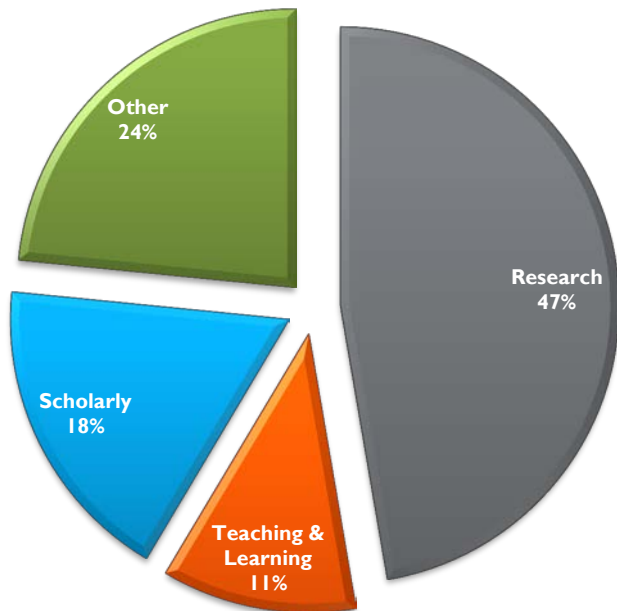
➢ **National Authentication Framework**

➢ **HE&R**

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AAF TODAY

SUBSCRIBER PROFILE

Pie chart:
- University 41%
- Publisher/Commercial 36%
- Research/Research Support 15%
- Other 3%
- Government 3%
- TAFE 2%

2016 – 2017 Targets

➢ TAFE / VET / RTOs
➢ ICT Suppliers
➢ Australian Government Science Network (ABS etc.)
➢ State Government
➢ MRIs
➢ Local Government
➢ GLAMs

279 SERVICES

Supplier of authentication services to Australian eResearch

- ➤ Today, the authentication framework that the **AAF** delivers is a significant part of the **NCRIS** ecosystem

- ➤ All **NCRIS** capabilities require authentication which enable them to provide access to their service for researchers and collaboration partners both nationally and internationally

- ➤ **AAF** has become a leader in what it delivers both nationally and internationally and is part of a global community of R&E federation providers

- ➤ A number of **AAF** technologies have been made possible through collaboration with **NCRIS** capabilities and funding from the Department of Education and Training

- ➤ Requirements of eResearch are diverse, complex and continuing to evolve – more work needs to be done!

TECHNOLOGIES

UPGRADE TO IDP V3 NOW!

⚠ **End of Life Warning**

As of July 31, 2016, all security maintenance for the Shibboleth Identity Provider V2 release branch will cease. A complete schedule of the dates can be found here. All deployments should upgrade to V3 or evaluate other alternatives. This does **not** apply to the Service Provider software, which remains supported indefinitely. It **does** apply to the 1.x Centralized Discovery Service product.

Contact Support@aaf.edu.au !!!

DIVERSIFY TO SUPPORT MORE THAN ONE STANDARD

RAPID CONNECT

Since 2013 the AAF has been offering a service called Rapid Connect:

➢ A hub approach that turns SAML assertions into JSON web tokens

➢ 60% of new AAF services are connected through Rapid Connect

➢ **No need to install a Shibboleth SP**

➢ It natively integrates into commonly used development languages

➢ PaaS solutions like Heroku, Google App Engine and Pagoda become suitable deployment targets for AAF services

➢ Integration code is **minimal**, simple to write and **easy to test**

➢ Other federations …

OPENID CONNECT

We're starting to do research into OpenID Connect:

➢ NeCTAR funded project

➢ How might that look?

➢ Is the hub model that has been successful for Rapid Connect the right approach for OIDC within the AAF ?

➢ How do we leverage existing SAML IdP?

➢ What possibilities could this standard bring to our subscribers not only for authentication and identity transfer but for access control?

Working with the international standard group on `OpenID Connect Federation` draft.

NON-WEB

SAML Enhanced Client or Proxy (ECP)

The **Enhanced Client or Proxy** profile is an adaptation of the SAML profile used for Browser SSO with the parts that were designed around the limitations of a browser removed.

It is designed for clients such as:

➢ Desktop applications

➢ Server-side code running in a web application

➢ Anything else that isn't a browser

➢ On the backend ECP communications occur over (secured) HTTP requests.

Working with IdPs to enable ECP

CONNECTING GLOBALLY

INTER-FEDERATION – COMING IN 2017

eduGAIN

The eduGAIN service interconnects identity federations around the world, simplifying access to content, services and resources for the global research and education community. eduGAIN enables the trustworthy exchange of information related to identity, authentication and authorisation (AAI).
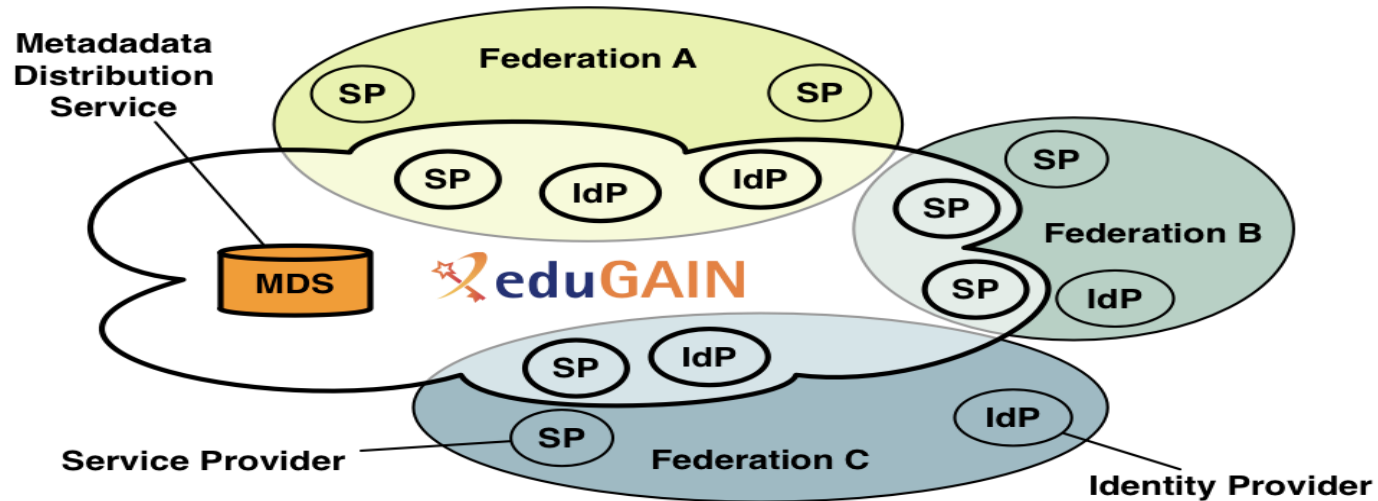
GLOBAL MEMBERSHIP

eduGAIN **Voting-only** **Candidate**
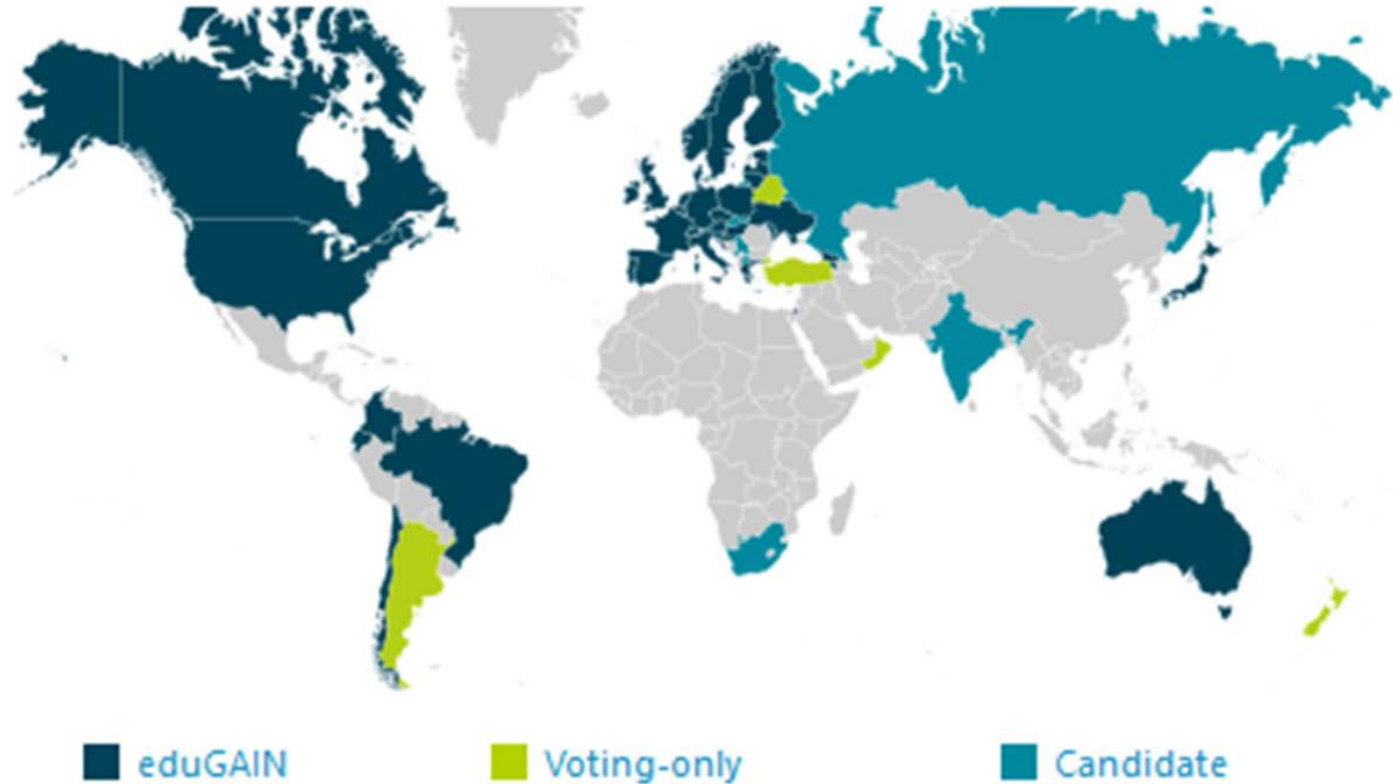
38 Federations | 2,131 Identity Providers | 1,217 Service Providers

HOW IT WORKS

Connecting **AAF** to the global edu**GAIN** metadata feed.

WHAT'S NEXT?

- ➢ **ORCID portal**

- ➢ **Ligo.org**

- ➢ **National Institute of Allergy and Infectious Diseases (NIAID) at the US National**

- ➢ **Institutes of Health (NIH)**

Next Step – Process around institutions joining eduGAIN.

EXPANDING AAF'S SERVICES

HOSTED IDENTITY PROVIDER

We're working on this right now, it will launch as a SaaS offering for AAF subscribers in 2017.

Will provide a self management web UI.

Will operate on data from:
- User and password details stored locally, great for smaller subscribers; or
- User and password details sourced from on campus directory, for larger subscribers, universities etc.

ORCID meets the AAF

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CONSORTIUM MEMBER BENEFITS

PREMIUM MEMBERSHIP

- Reduced costs

- Ability to integrate ORCID ID's in multiple systems

LOCAL AUSTRALIAN SUPPORT

INTEGRATED APPLICATION & USER ACCEPTANCE

API organisations get:

▶ Access to user's Read Limited Data

▶ Notifications of updates to user records

▶ Access to the member API

▶ Facilities to deposit & update user records

REPORTING

stats | reports for organisations

ROLE OF THE LEAD
Provide local support

➢ Manage the membership process with ORCID

➢ Manage and support the on-boarding of Consortium members

➢ Be the central technical support contact to all members (Level 1) and manage Level 2 escalation to ORCID

➢ Act as the primary contact between ORCID and the members for membership enquiries

➢ Maintain Consortium documentation and technical documentation repositories.

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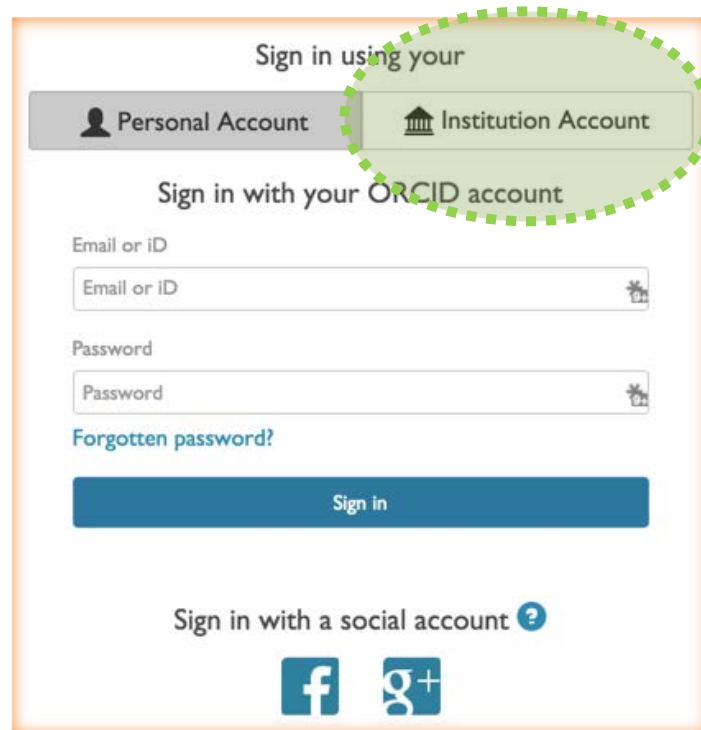
MEMBER'S ROLE
Undertake the implementation work

➢ Follow best practice (see members.orcid.org)

➢ Perform all development and testing work in ORCID Sandbox environment and review integration with consortium tech lead ORCID

➢ Keep your member API credentials secure

➢ Communicate with your researcher users

➢ Provide notification to the Consortium Lead when launching an integration or starting a drive to encourage user registration to enable coordination across new releases.

➢ If over 30 000 researchers will be asked to register in a period of less than one month, the Member should notify the Consortium Leader in writing at least 35 days in advance.

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ORCID AS A SERVICE IN THE AAF

➤ **ORCID have been working with SURFNet (Netherlands Federation) –**

➤ **At first logon ORCID links with the institutional identity**

➤ **Researcher can manage their linkages**

➤ **Joined as a Service in eduGAIN**

➤ **ORCID seeking the Researcher and Scholarly entity category**

Single Sign-on, no need to remember another username / password

ORCID AS A FEDERATION ATTRIBUTE

Federated Attribute

➢ **eduPersonORCID define in the eduPerson schema**

➢ **OID: 1.3.6.1.4.1.5923.1.1.1.16**

➢ **AAF will work with institutions in the federation to…**
   ➢ Store captured ORCIDs in institutional identity directories
   ➢ Release ORCID as an attribute to federation services
   ➢ Tools being developed by ORCID

Help link ORCIDs with researchers federated identified

➢ **More to come as we (as a community) better understand how ORCIDs fit into the institutional and federated identity management**

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SUPPORTING THE GLOBAL FEDERATION COMMUNITY

INTERNATIONAL ACTIVITIES

REFEDS

- ➢ **Annual Sponsor of the global federation work plan**
- ➢ **Open Seat on the Steering Committee**

APAN Federated IDM WG

- ➢ **Terry Smith – Chair**

Connecting our colleagues in APAC

- ➢ **Singapore & Hong Kong**

QUESTIONS