Trust and Identity 2018

What Have We Accomplished?
What is Important?
What is Urgent?
Welcome to TechEx 2018

Howard Pfeffer
President and CEO, Internet2
Introduction:
Some things to think about this morning

Kevin M. Morooney
Vice President, Trust and Identity Services & NET+
people, perspective, people
People

Dee Childs  Eric Goodman  Rob Carter
Mike Erickson  Mike Grady  Nathan Dors
Michael Gettes  Eric Kool-Brown  Jill Gemmill
Ted Hanss  Kim Milford  Ann Harding
Klara Jelinkova  Keith Wessel  Karen Herrington
Laura Paglione  Brett Bieber  Todd Higgins
Sean Reynolds  David Bantz  Tom Jordan
Marty Ringle  Chris Hable  Christos Kanellopoulos
Celeste Schwartz  Mary Catherine  Les LaCroix
Pankaj Shah  Martinez  Tom Barton
Dave Vernon  Jon Miner  Keith Hazleton
Melissa Woo  Joanna Rojas  Jim Jokl
Mark Scheible  Chris Whalen  Warren Curry
Janemarie Duh  Mark Johnson  Benn Oshrin
Matt Brookover  Michele Norin  Bill Thompson
Judith Bush  Chris Phillips
Tom Demeranville  John O'Keefe
Heather Flanagan  Warren Anderson

Partial. Active.
Institutions, organizations

Texas A&M University
University of Florida
Yale University
Rice University
ORCID
Northwestern University
Reed College
Montgomery County Community College
Texas LEARN
Cornell University
Stony Brook University
MCNC
Lafayette College
Colorado School of Mines
OCLC
Spherical Cow Consulting
University of California Office of the President
Unicon
University of Virginia
University of Chicago

University of Washington
REN-ISAC
University of Illinois Urbana-Champaign
University of Nebraska-Lincoln
University of Alaska
University of Michigan
InnoSoft
University of Wisconsin-Madison
Duke University
National Institute for Allergies and Infectious Diseases (NIH)
Rutgers
CANARIE
Lafayette College
LIGO
Clemson University
SWITCH
Virginia Tech
Franklin & Marshall
GEANT
Carleton College
It depends upon how you look at it.
“It was nice to be able to talk about something other than research.”

“Glad to see that we’re finally talking about supporting research.”
This argument is serious
chocolate

peanut butter
research

enterprise
My personal perspective from the day to day...
My personal perspective from the day to day…
Something else to think about.
“I feel like it is the same people every year.”

“We’re talking about the same things we talked about in 2011.”
people, perspective, people
Jack Suess
Vice President of Information Technology and CIO, UMBC

Hannah Short
CERN, Computer Engineer, Federated Identity Manager

Jacob Farmer
Director, Client Services, Indiana University
Our Year With TIER: The Campus Success Program 2018

Jack Suess
Vice President of Information Technology and CIO, UMBC
Identity Management and Research Challenges

Hannah Short
CERN, Computer Engineer, Federated Identity Manager
Identity Management and Research Challenges

What do Research Communities want?

TechEx, Orlando, October 16th 2018

With thanks to the FIM4R Authors and Contributors for their collaboration on the whitepaper and the following slides.

** Not all contributors' logos represented
In 2012…

A group of Research Communities got together to document their vision of Federated Identity Management for the future, FIM4Rv1

FIM needs to provide a better user experience!

We need attributes from IdPs, they need to be able to cross borders!

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Federated Identity Management for Research Collaborations

Paper Type: Research paper
Date of this version: 28 August 2013

Abstract

Federated identity management (FIM) is an arrangement that can be made among multiple organisations that lets subscribers use the same identification data to obtain access to the secured resources of all organisations in the group. Identity federation offers economic advantages, as well as convenience, to organisations and their users. For example, multiple institutions can share a single application, with resultant cost savings and consolidation of resources. In order for FIM to be effective, the partners must have a sense of mutual trust.

A number of laboratories including national and regional research organizations are facing the challenge of a deluge of scientific data that needs to be accessed by expanding user bases in dynamic collaborations that cross organisational and national boundaries.

Driven by these needs, representatives from a variety of research communities, including photon/neutron facilities, social science & humanities, high-energy physics, atmospheric science, bioinformatics and fusion energy, have come together to discuss how to address these issues with the objective to define a common policy and trust framework for Identity Management based on existing structures, federations and technologies.

This paper will describe the needs of the research communities, the status of the activities in the FIM domain and highlight specific use cases. The common vision for FIM across these communities will be presented as well the key stages of the roadmap and a set of recommendations intended to ensure its implementation.

This is hard! We’d like funding!

We need improved trust in SAML federations! Assurance, Operational Security & Sustainability
Times have changed!

• In a substantial sense, there is now a global authentication infrastructure
  — National R&E Federations & eduGAIN
  — Emergence of standalone IdPs, e.g. Social Login, Github, ORCID

• Acceptance that authorisation could not be managed in the same way!
  — IdPs not authoritative for research roles
  — Authorisation now in the hands of the research communities
The Proxy Architecture allows Research Communities to satisfy many FIM4Rv1 requirements themselves, but comes with a large overhead.

https://aarc-project.eu/architecture/
In 2017...

- Research Communities had begun putting Federated Identity Management in the critical path to their services.
- There had been much progress since FIM4Rv1.
- But, many outstanding (and new) challenges.
- The FIM4R community was called to action.
The road to FIM4Rv2

1. September 2017, Montreal
   28 people & lots of post-its
2. October 2017, San Francisco
   asked the wider community for input
3. February 2018, Vienna
   final review and research communities vote
4. June 2018, Trondheim
   final draft released
5. July 2018
   published on Zenodo
40 authors
40 requirements
40 references
40 authors
40 requirements
40 references
...
41 pages
What are our challenges?

- Implementing and maintaining robust, user-friendly AAIsto for our researchers, with the budget and skillset available
- Doing it in a way that’s interoperable, reliable and sustainable
- Encouraging IdPs and Federations to help us out in this!

Disclaimer: this is *my* view, not necessarily shared by all FIM4R authors
Recommendations

- Challenges transformed to requirements and recommendations
- Targeted to different stakeholders
- Everyone has a role to play (that probably includes you!)
If I had to pick my top three...

1. Re-use shared AAI and related services that follow the proxy model and related AARC guidelines

2. Sustain operation of critical FIM services

3. Increase research representation in FIM governance
Federated Identity Management for Research Collaborations


This white paper expresses common requirements of Research Communities seeking to leverage identity federation for Authentication and Authorisation. Recommendations are made to Stakeholders to guide the future evolution of Federated Identity Management in a direction that better satisfies research use cases. The authors represent research communities, Research Services, Infrastructures, identity Federations and Inter-federations, with a joint motivation to ease collaboration for distributed researchers. The content has been edited collaboratively by the Federated Identity Management for Research (FIM4R) Community, with input sought at conferences and meetings in Europe, Asia and North America.

The authors also acknowledge the support and collaboration of many other colleagues in their respective institutes, research communities and IT infrastructures, together with the funding received by these from many different sources. These include but are not limited to the following: (i) The Worldwide LHC Computing Grid (WLCG) project is a global collaboration of more than 170 computing centres in 43 countries, linking up national and international grids and infrastructures. Funding is acknowledged from many national funding bodies and we acknowledge the support of several operational infrastructures including EGI, GSI and INGEP/HeRC. (ii) EGI acknowledges the funding and support received from the European Commission and the many National Grid Initiatives and other members. (EGI-hub) receives funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No. 776328. (iii) The work leading to these results has received funding from the European Union’s Horizon 2020 research and innovation programme under Grant Agreement No. 730941 (AALIC2). (iv) Work on the development of EGI’s Identity Management system has been supported by The UK National Environment Research Council and funding from the European Union’s Seventh Framework Programme for research, technological development and demonstration through projects i-SMART (grant agreement no. 228820) and i-SMART2 (grant agreement no. 375797). (v) Lucie Matysova and Michal Prochaska acknowledge funding from the RI ELIXIR CZ project funded by MŠMT Czech Republic no. LM2019074. (vi) Scott Konrad acknowledges support provided by the United States National Science Foundation under Grant No. PHY-1707176. (vii) GÉANT Association on behalf of the G4H Phase 2 project (DH4-2). The research leading to these results has received funding from the European Union’s Horizon 2020 research and innovation programme under Grant Agreement No. 731120 (DH4-2). (viii) ELIXIR acknowledges support from Research infrastructure programme of Horizon 2020 grant no 676890 (ELIXIR-CORE). (ix) SCIVOC, the science cluster acknowledges support from Horizon 2020 research and innovation programme under grant agreement No 654248. (x) Mirjam van Dalen acknowledges that the research leading to this result has been supported by the project CALIPSOplus under the Grant Agreement 730982 from the EU Framework Programme for Research and Innovation Horizon 2020. (xi) ISSAT is an international association supported by research organisations in China (CRRIP), Finland (SPI), Japan (NPDR), Norway (NIFR), Sweden (VR), and the United Kingdom (NDC).
Back to the session Qs

What Have We Accomplished?
What is Important?
What is Urgent?
DevOps: Adapting to the Changing World

Jacob Farmer
Director, Client Services, Indiana University
Open CACTI Meeting

TIME 10/18/18 12:10PM-01:30PM
ROOM Oceana Grand Ballroom 11

SESSION ABSTRACT

Please get your food and beverage from Oceana 6/7 before proceeding to your meeting room.

The Community Architecture Committee for Trust and Identity (CACTI) invites attendees to their open and interactive meeting. We will be reviewing recent activities with eduPerson and MACE-DIR changes, developments around OIDC within R&E, and will socialize our initial draft FIM4R gap assessment undertaken by CACTI this past summer in light of the unique opportunity that the FIM4R v2 recommendations presented at TNC18. Discussion and questions are encouraged during the meeting to assist finalizing the draft as well as gathering perspectives on what is on the horizon for Trust and Identity topics that merit more focus.