

# Welcome to 11<sup>th</sup> FIM4R

11<sup>th</sup> Meeting, Montréal  
18-19 September 2017

Chairs: David Kelsey (STFC), Hannah Short (CERN)

<https://fim4r.org>

# Welcome

- To long-standing members of FIM4R
- To people who have attended FIM4R before
- To Newcomers!

# FIM4R - brief history

- “Federated Identity Management for Research”
- Issue of IdM raised by IT leaders from the 8 EIROforum labs (Jan 2011)
  - CERN, EUROfusion, EMBL, ESA, ESO, ESRF, European XFEL and ILL
- A collaborative effort started in June 2011 (1<sup>st</sup> workshop at CERN)
- Not just EIROForum. Include many ESFRI projects and providers and infrastructures (All communities are welcome!)
- Involved at start - photon & neutron facilities, social science & humanities, high energy physics, climate science, life sciences and fusion energy (more have joined since)
- Workshops included participation by HTC and HPC infrastructures, TERENA(now GEANT), IGTF, Geant/eduGAIN, technology developers

This is 1<sup>st</sup> FIM4R meeting in North America

# Previous workshops

- February 2017, TIIME (<https://indico.cern.ch/event/605369/>)
- November 2015, EWTI (<https://indico.cern.ch/event/450600/>)
- February 2015, CERN (<https://indico.cern.ch/event/358127/>)
- April 2014, ESRIN in Frascati (<https://indico.cern.ch/event/301888/>)
- October 2013, CSC in Helsinki  
(<https://refeds.org/meetings/oct13/index.html>)
- March 2013, PSI Villigen (<http://indico.psi.ch/event/2230>)
- June 2012, MPI Psycholinguistics  
Nijmegen (<http://www.clarin.eu/events/3501>)
- February 2012, ISGC (<https://indico.cern.ch/event/177418/>)
- November 2011, RAL (<https://indico.cern.ch/event/157486/>)
- June 2011, CERN (<https://indico.cern.ch/event/129364/>)

# The FIM4R paper

## 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.

### Keywords

federated identity management, security, authentication, authorization, collaboration, community

### Introduction

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 organisations 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. Many of the users have accounts at several research organisations and will need to use services provided by yet more organisations involved in research collaborations. All these identities and services need to be able work together without the users' being obliged to remember a growing number of accounts and passwords. As the user communities served by these organizations are growing they are also becoming younger and this younger generation has little tolerance for artificial barriers, many being the relics of technology and policies that could, if reasoned, also evolve. This "Facebook" generation [1] has triggered a change in the attitude towards IT tools. One expects to be able to share data, software, results, thoughts and emotions with whom they choose, when they choose. The boundaries between work and social life are less sharp, and it is expected that tools blend into this environment seamlessly. The interaction with commercial services such as the social networks must not imply that the users and research communities relinquish control over access to resources and security policies. The frequency of use will vary between the different users. Some will use these new tools continuously each day while others will log in a few times per year. This implies that operation has to be very intuitive, preferentially in a style known from common commercial devices and applications (PCs, smart phones, tablets etc).

- 2012: We prepared a paper that documents common requirements, a common vision and recommendations
  - To research communities, identity federations, funding bodies
- Paper: CERN-OPEN-2012-006: <https://cdsweb.cern.ch/record/1442597>
- The Version 1 paper was very influential
- 5 years on – time for Version 2



# Agenda of 11th FIM4R

- Reports from new Research Communities
- Updates from existing FIM4R member communities
- Talks from local identity federations and e-Infrastructures (Canada, USA)
- Updates from ongoing projects (AARC, REFEDS, GEANT, eduGAIN)
- Updates from e-Infrastructures
- The FIM4R version 2 community survey
- Progress and plans for FIM4R version 2 paper

# Aims, outputs & principles

- As usual, information exchange!
- BUT, also ...
- The FIM4R version 2 community survey
- Progress towards FIM4R version 2 paper
- Date and location of 12<sup>th</sup> FIM4R?

## *Guiding principles:*

- FIM4R is all about Research Community REQUIREMENTS
- Other participants and talks are always welcome
  - But this is not the place to make technology and deployment decisions

# Some more details

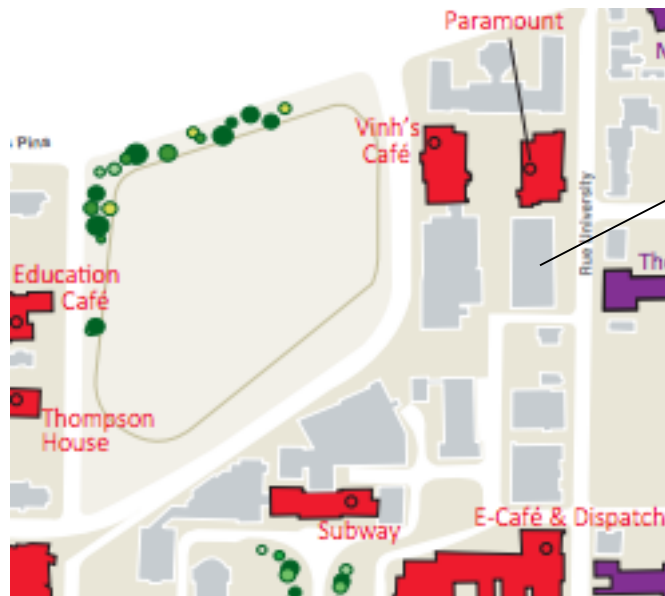
- Why are we here?
- Many thanks to Dept. of Physics, McGill University
  - Thanks also to Tom Barton who offered to host in Chicago
- Other sponsors?
- Coffee breaks, lunches, dinner (Monday)
- [http://www.mcgill.ca/foodservices/files/foodservices/shhs\\_map.pdf](http://www.mcgill.ca/foodservices/files/foodservices/shhs_map.pdf)
- <https://montreal.eater.com/maps/best-restaurants-cafes-mcgill-university-ghetto-milton-parc>
- WiFi (eduROAM)
- Tuesday – clashing with start of RDA program (lunch?)
- RDA session – Wednesday 20<sup>th</sup> Sep at 13:30 (Mansfield 3)
  - IG Federated Identity Management



# On Campus Dining

<http://www.mcgill.ca/foodservices/locations/retail>

- [http://www.mcgill.ca/foodservices/files/foodservices/shhs\\_map.pdf](http://www.mcgill.ca/foodservices/files/foodservices/shhs_map.pdf)



Dept of Physics

# Dinner – Monday

- Il Focolaio Pizza Restaurant
- <http://ilfocolaio.ca>
- No host – at your own expense
- Sign-up sheet?
- 19:00

# Agenda - Monday

- Updates from FIM4R members
- Requirements Analysis
  - Gather requirements and prioritise
- Research Community Drivers
  - provide more, and faster, feedback to various working groups, committees and the like that are seeking to evolve federation infrastructure, policy and processes

# Agenda - Tuesday

- Updates from Projects
- Updates from Infrastructures
- The FIM4R version 2 community survey
- Progress towards FIM4R version 2 paper

Any questions?