OpenID Connect and OAuth in the R&E Community

IAM Online

Wednesday, December 12, 2018

Rachana Ananthakrishnan, Globus
Nathan Dors, University of Washington
Roland Hedberg, Catalogix
Davide Vaghetti, Consortium GARR
Albert Wu, InCommon/Internet2

OpenID Connect and OAuth in the R&E Community

Welcome!

Today’s IAM Online will explore the Trust & Identity initiatives and working group activities shaping the adoption of OpenID Connect (OIDC) and OAuth technologies within and for the research and education (R&E) community, particularly in support of multi-institutional academic collaboration.

Davide
OIDF R&E WG Chair
Consortium GARR

Roland
Software developer
Catalogix

Rachana
Head of Products
Globus

Albert
Federation Service Mgr
InCommon/Internet2

Nathan
Moderator
University of Washington

Nathan

5min

Context

Objectives
Landscape

10min

Activities

Working Groups
Deliverables
Impacts

30min

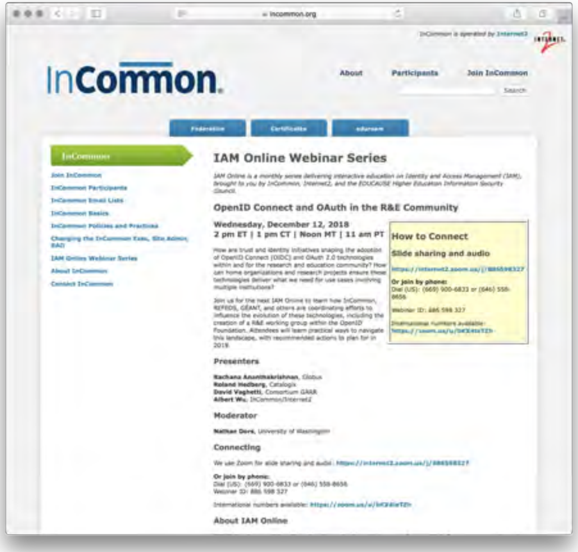
Perspectives

Developer
Standards bodies
Research community proxy
Research service provider
Federation operator

5min

Conclusion

Summary
Recommendations



IAM Online Webinar Series

IAM Online is a monthly series delivering interactive education on Identity and Access Management (IAM), brought to you by InCommon, Internet2, and the EDUCAUSE Higher Education Information Security Council.

OpenID Connect and OAuth in the R&E Community

Wednesday, December 12, 2018
2 pm ET | 1 pm CT | Noon MT | 11 am PT

How are trust and identity initiatives shaping the adoption of OpenID Connect (OIDC) and OAuth 2.0 technologies within and for the research and education community? How can home organizations and research projects ensure these technologies deliver what we need for use cases involving multiple institutions?

Join us for the next IAM Online to learn how InCommon, REFEDS, GÉANT, and others are coordinating efforts to influence the evolution of these technologies, including the creation of a R&E working group within the OpenID Foundation. Attendees will learn practical ways to navigate this landscape, with recommended actions to plan for in 2019.

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https://zoom.us/u/bK3i4ieTZh

Presenters

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Roland Hedberg, Catalogix
David Vaghetti, Consortium GARR
Albert Wu, InCommon/Internet2

Moderator

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Webinar ID: 886 598 327

International numbers available: https://zoom.us/u/bK3i4ieTZh

About IAM Online

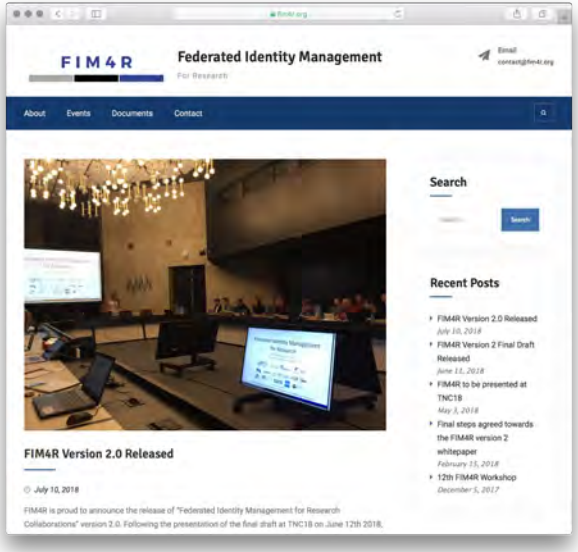
Objectives

Learn how to help ensure OIDC and OAuth deliver what R&E needs to sustain multilateral federations.

Learn how Internet2, REFEDS, GÉANT, and others are coordinating activities to influence standards.

Learn practical ways to navigate these activities and how and when to get involved.

Learn what actions to plan for in 2019, including how to contribute your time based on interests.



Federated Identity Management
For Research

Recent Posts

- FIM4R Version 2.0 Released
  July 10, 2018
- FIM4R Version 2 Final Draft Released
  June 11, 2018
- FIM4R to be presented at TNC18
  May 3, 2018
- Final steps agreed towards the FIM4R version 2 whitepaper
  February 15, 2018
- 12th FIM4R Workshop
  December 5, 2017

FIM4R Version 2.0 Released

July 10, 2018

FIM4R is proud to announce the release of "Federated Identity Management for Research Collaborations" version 2.0. Following the presentation of the final draft at TNC18 on June 12th 2018,

Landscape

In 2018, the FIM4R (Federated Identity Management for Research) initiative identified requirements that warrant further consideration of OIDC and OAuth, including non-web use cases and access delegation.

FIM4R paper categorizes the requirements according to types of constituents, all of which can influence how OIDC and OAuth are deployed:

Home organizations
Federations and eduGAIN
Research community proxies
Research service providers
Software developers
Standards bodies

AARC's Blueprint Architecture helps providers and communities to enable federated access to their resources.

AARC is working with the community to deliver a common policy framework for integrated AAI

AARC is testing technical and policy results to address research communities requirements.

AARC is producing different training modules and information packages on federated access and AARC results.

AARC gears up for final months, with ...

Enabling single sign-on across EOSC-h...

Research communities 'plug in' to AAR...

AARC has influenced the integration of the OpenAIRE AAI with the EOSC-hub AAI. The following article was originally posted by Ilaria Fava on the OpenAIRE website. The European Open

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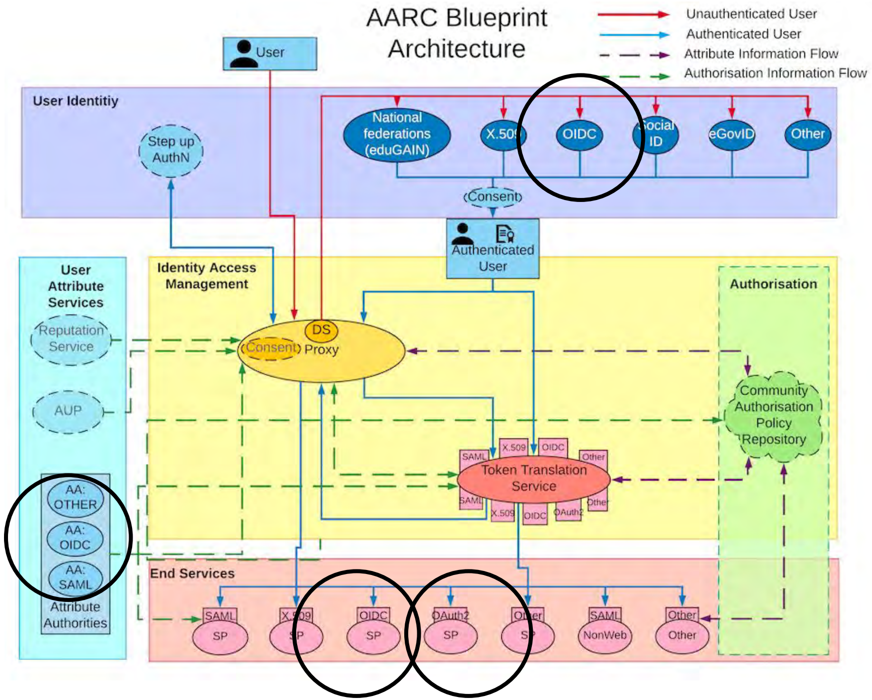
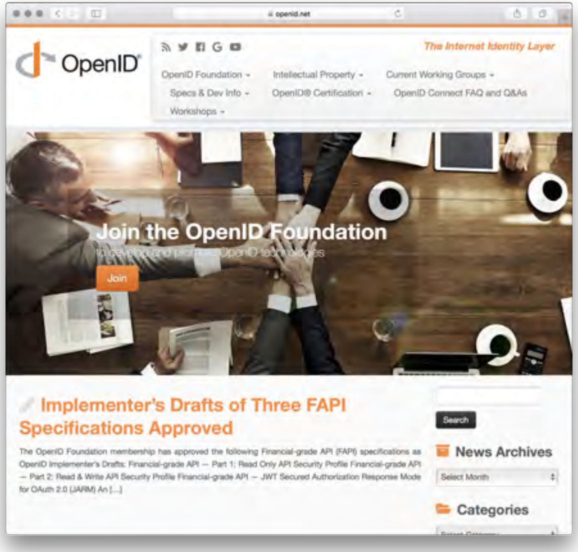
Landscape

AARC (Authentication and Authorization for Research Collaboration) Blueprint Architecture provides a reference architecture that enables the integration of identities from SAML-based federations into research communities.



Landscape

AARC Blueprint Architecture has been adopted by research collaborations as a reference model enabling them to deploy ecosystems of research services and applications, including ecosystems of end services that rely on OIDC and OAuth.



Implementer's Drafts of Three FAPI Specifications Approved

The OpenID Foundation membership has approved the following Financial-grade API (FAPI) specifications as OpenID Implementer's Drafts: Financial-grade API — Part 1: Read Only API Security Profile Financial-grade API — Part 2: Read & Write API Security Profile Financial-grade API — JWT Secured Authorization Response Mode for OAuth 2.0 (JARM) An [...]

Landscape

Observers have noticed our large-scale SAML-based federations and related academic collaborations spanning many organizations.

The OpenID Foundation has welcomed the R&E community to help develop the OpenID Connect Federation 1.0 specification into a standard.

Davide

5min

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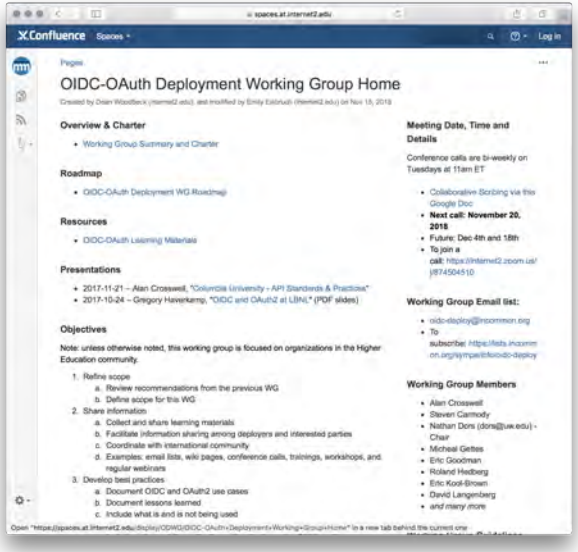


OIDC-OAuth Deployment Working Group Home

Created by Dean Woodbeck (internet2.edu), last modified by Emily Eisbruch (internet2.edu) on Nov 15, 2018

Overview & Charter

- Working Group Summary and Charter

Roadmap

- OIDC-OAuth Deployment WG Roadmap

Resources

- OIDC-OAuth Learning Materials

Presentations

- 2017-11-21 – Alan Crosswell, "Columbia University - API Standards & Practices"
- 2017-10-24 – Gregory Haverkamp, "OIDC and OAuth2 at LBNL" (PDF slides)

Objectives

Note: unless otherwise noted, this working group is focused on organizations in the Higher Education community.

1. Refine scope
   a. Review recommendations from the previous WG
   b. Define scope for this WG
2. Share information
   a. Collect and share learning materials
   b. Facilitate information sharing among deployers and interested parties
   c. Coordinate with international community
   d. Examples: email lists, wiki pages, conference calls, trainings, workshops, and regular webinars
3. Develop best practices
   a. Document OIDC and OAuth2 use cases
   b. Document lessons learned
   c. Include what is and is not being used

Meeting Date, Time and Details

Conference calls are bi-weekly on Tuesdays at 11am ET

- Collaborative Scribing via this Google Doc
- **Next call: November 20, 2018**
- Future: Dec 4th and 18th
- To join a call: https://internet2.zoom.us/j/874504510

Working Group Email list:

- oidc-deploy@incommon.org
- To subscribe: https://lists.incommon.org/sympa/info/oidc-deploy

Working Group Members

- Alan Crosswell
- Steven Carmody
- Nathan Dors (dors@uw.edu) - Chair
- Micheal Gettes
- Eric Goodman
- Roland Hedberg
- Eric Kool-Brown
- David Langenberg
- *and many more*

Open "https://spaces.at.internet2.edu/display/ODWG/OIDC-OAuth+Deployment+Working+Group+Home" in a new tab behind the current one

Working Group:
OIDC-OAuth Deployment

Sponsor:
InCommon Technical Advisory Committee

Chair(s):
Nathan Dors

Status:
Active - refining scope and deliverables

Location:
https://spaces.at.internet2.edu/x/jJiTBg

Working Group:
InCommon OIDC-OAuth Deployment

What's the purpose of the working group?

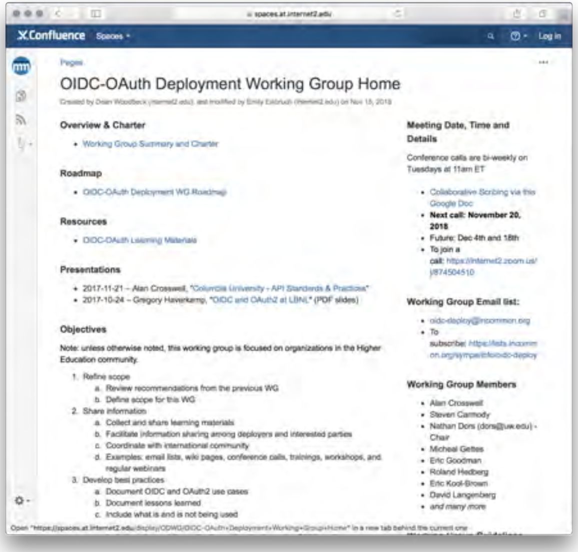
Broadly, to share information, develop best practices, and guide standardization in support of multi-lateral federation. However, the objectives overlap with other working groups, so the scope is being refined for 2019.

What deliverables will this WG produce?

In 2019, we're proposing the working group focus on OIDC deployment guides for the GÉANT Shibboleth OIDC Extension and the SATOSA proxy.

How will they impact implementations and R&E constituents?

They'll enable home organizations and others to add OIDC support to their Shibboleth IdPs, and understand the use cases it enables.



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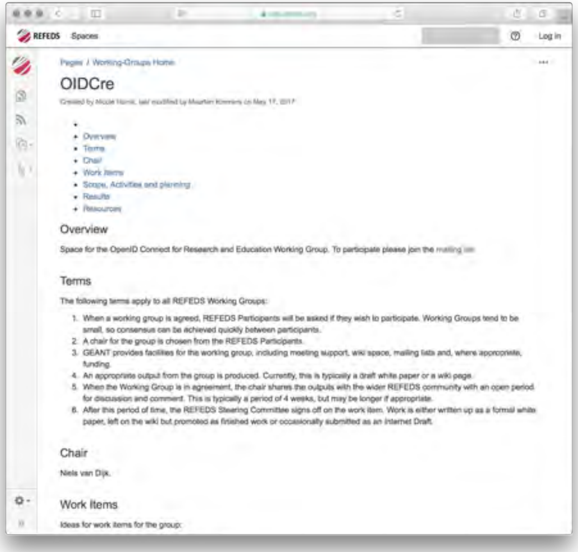


OIDCre

Created by Nicole Harris, last modified by Maarten Kremers on May 17, 2017

- Overview
- Terms
- Chair
- Work Items
- Scope, Activities and planning
- Results
- Resources

Overview

Space for the OpenID Connect for Research and Education Working Group. To participate please join the mailing list

Terms

The following terms apply to all REFEDS Working Groups:

1. When a working group is agreed, REFEDS Participants will be asked if they wish to participate. Working Groups tend to be small, so consensus can be achieved quickly between participants.
2. A chair for the group is chosen from the REFEDS Participants.
3. GEANT provides facilities for the working group, including meeting support, wiki space, mailing lists and, where approoriate, funding.
4. An appropriate output from the group is produced. Currently, this is typically a draft white paper or a wiki page.
5. When the Working Group is in agreement, the chair shares the outputs with the wider REFEDS community with an open period for discussion and comment. This is typically a period of 4 weeks, but may be longer if appropriate.
6. After this period of time, the REFEDS Steering Committee signs off on the work item. Work is either written up as a formal white paper, left on the wiki but promoted as finished work or occasionally submitted as an Internet Draft.

Chair

Niels van Dijk.

Work Items

Ideas for work items for the group:

Working Group:
OpenID Connect for Research & Education (OIDCre)

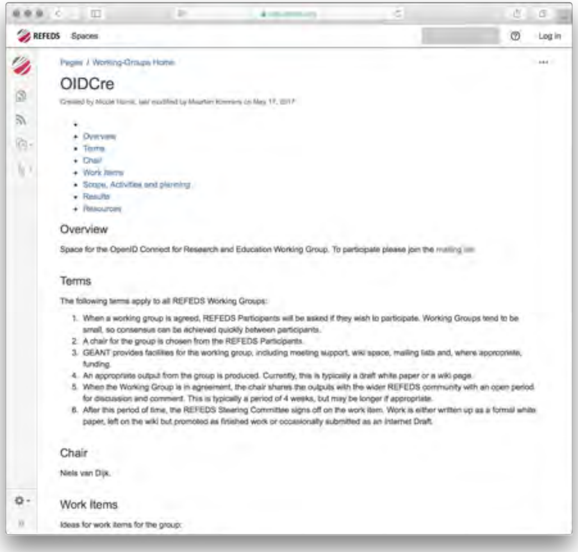
Sponsor:
REFEDS

Chair(s):
Niels van Dijk

Status:
Active

Location:
https://wiki.refeds.org/display/GROUPS/OIDCre

Working Group:
REFEDS OIDCre



Pages / Working-Groups Home

OIDCre

Created by Nicole Harris, last modified by Maarten Kremers on May 17, 2017

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Niels van Dijk.

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Ideas for work items for the group:

What’s the purpose of the working group?

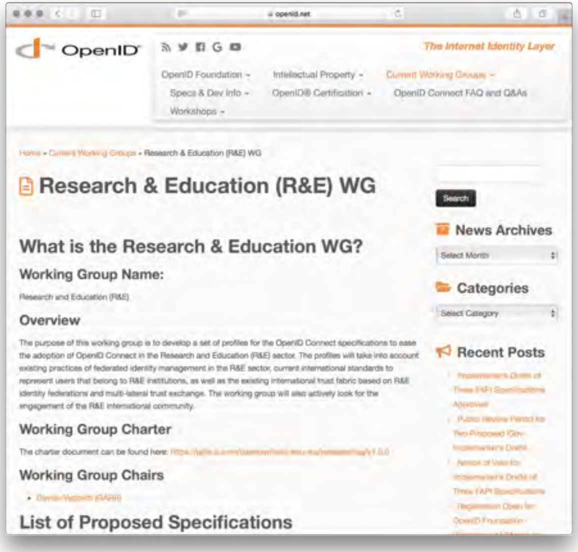
In addition to coordinating OIDC discussions, this year’s work focused on consistent ways to map identifiers and attributes between SAML and OIDC, in the context of attribute exchange in the R&E community.

What deliverables will this WG produce?

Currently, a white paper for implementation of mappings between SAML 2.0 and OIDC in R&E.

How will they impact implementations and R&E constituents?

They help developers resolve differences between OIDC and existing schemas like eduPerson and SCHAC, and provide implementations with configurations required by deployers in R&E.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Public Review Period for Two Proposed iGov Implementer's Drafts
Notice of Vote for Implementer's Drafts of Three FAPI Specifications
Registration Open for OpenID Foundation

Research & Education (R&E) WG

What is the Research & Education WG?

Working Group Name:

Research and Education (R&E)

Overview

The purpose of this working group is to develop a set of profiles for the OpenID Connect specifications to ease the adoption of OpenID Connect in the Research and Education (R&E) sector. The profiles will take into account existing practices of federated identity management in the R&E sector, current international standards to represent users that belong to R&E institutions, as well as the existing international trust fabric based on R&E identity federations and multi-lateral trust exchange. The working group will also actively look for the engagement of the R&E international community.

Working Group Charter

The charter document can be found here: [illegible]

Working Group Chairs

- Davide Vaghetti (GARR)

List of Proposed Specifications

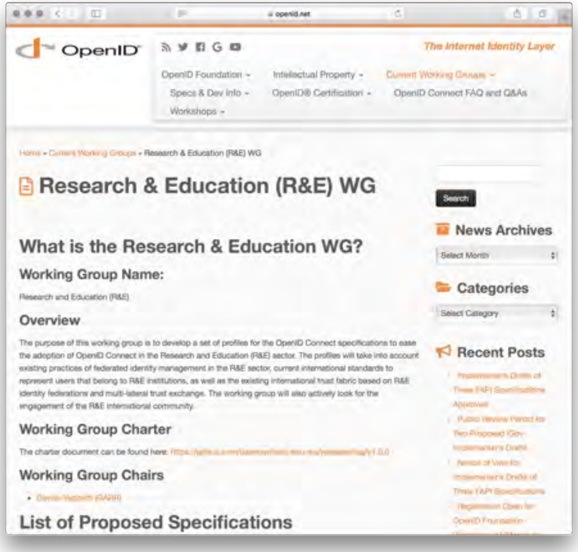
Working Group:
Research & Education (R&E)

Sponsor:
OpenID Foundation (OIDF)

Chair(s):
Davide Vaghetti

Status:
Active

Location:
https://openid.net/wg/rande/



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Working Group Chairs

- Davide Vaghetti (GARR)

List of Proposed Specifications

Working Group:
OIDF R&E

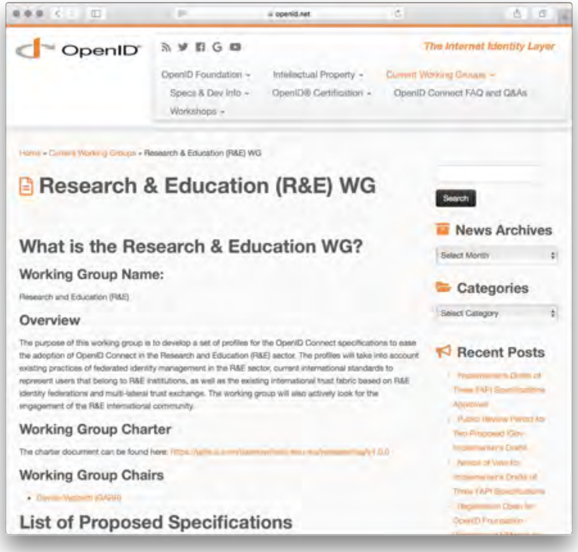
What's the purpose of the working group?

Develop a set of profiles and standards for OIDC that take into account the needs and current practices of IAM and FIM in the R&E sector; and to do so within the primary standards body developing standards for OIDC.

What deliverables will this WG produce?

At least three specifications are planned:

- One (or more) general OIDC profiles for the R&E sector that set standards for use of OIDC in terms of security, interoperability, and client requirements
- OIDC claims and scopes to be used in the R&E sector
- Entity metadata extension standard for OIDC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Working Group Chairs

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List of Proposed Specifications

Working Group:
OIDF R&E

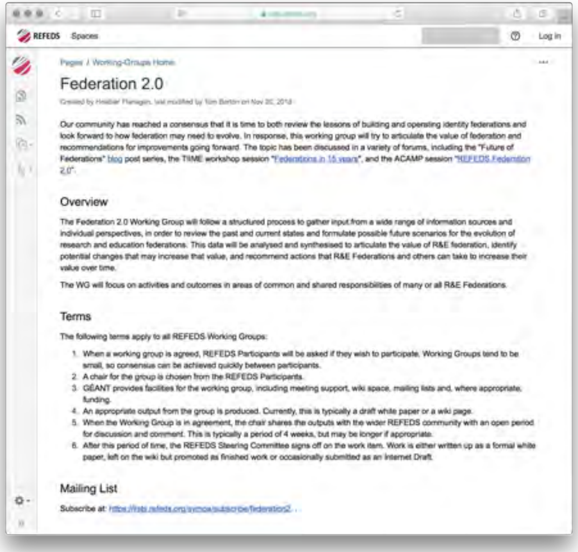
How will they impact implementations?

By specifying how to represent an R&E persona with OIDC, creating a profile to limit the number or options in the use of the protocol and creating a standard way to extend entity metadata, this WG will impact implementations in terms of:

- Ease of adoption
- Interoperability
- Security
- Baseline expectations and requirements

How will they impact R&E constituents?

This WG has been created inside the OpenID Foundation to let to let R&E communities and entities to work more closely with industry and vendors. This will help in creating better software and solutions that will cover the needs of the R&E sector, and expose other sectors to some of our practices.



Federation 2.0

Created by Heather Flanagan, last modified by Tom Barton on Nov 20, 2018

Our community has reached a consensus that it is time to both review the lessons of building and operating identity federations and look forward to how federation may need to evolve. In response, this working group will try to articulate the value of federation and recommendations for improvements going forward. The topic has been discussed in a variety of forums, including the "Future of Federations" blog post series, the TIIME workshop session "Federations in 15 years", and the ACAMP session "REFEDS Federation 2.0".

Overview

The Federation 2.0 Working Group will follow a structured process to gather input from a wide range of information sources and individual perspectives, in order to review the past and current states and formulate possible future scenarios for the evolution of research and education federations. This data will be analysed and synthesised to articulate the value of R&E federation, identify potential changes that may increase that value, and recommend actions that R&E Federations and others can take to increase their value over time.

The WG will focus on activities and outcomes in areas of common and shared responsibilities of many or all R&E Federations.

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3. GÉANT provides facilities for the working group, including meeting support, wiki space, mailing lists and, where appropriate, funding.
4. An appropriate output from the group is produced. Currently, this is typically a draft white paper or a wiki page.
5. When the Working Group is in agreement, the chair shares the outputs with the wider REFEDS community with an open period for discussion and comment. This is typically a period of 4 weeks, but may be longer if appropriate.
6. After this period of time, the REFEDS Steering Committee signs off on the work item. Work is either written up as a formal white paper, left on the wiki but promoted as finished work or occasionally submitted as an Internet Draft.

Mailing List

Subscribe at: https://lists.refeds.org/sympa/subscribe/federation2...

Working Group:
Federation 2.0

Sponsor:
REFEDS

Chair(s):
Tom Barton and Judith Bush

Status:
Call for participation is open - initial meeting in January

Location:
https://wiki.refeds.org/display/GROUPS/Federation+2.0

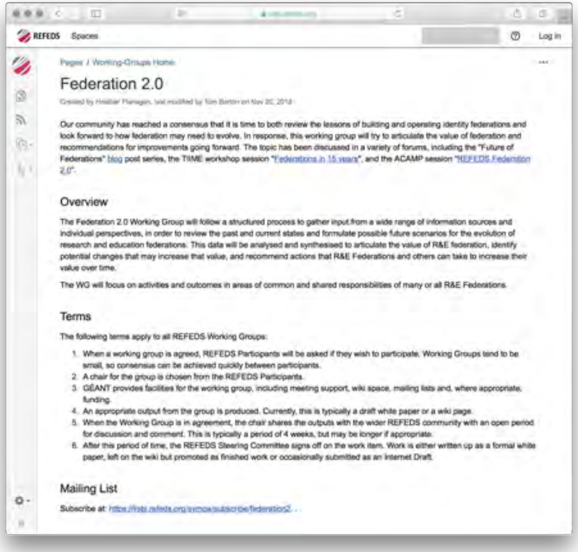
Working Group:
REFEDS Federation 2.0

What's the purpose of the working group?

To review the lessons we've learned from building and sustaining federations, and to consider how federation needs to evolve to support research and education.

What deliverables will this WG produce?

- Gather, analyze, and synthesize input from a wide range of sources and perspectives
- Articulate the value of R&E federation across constituencies and stakeholders
- Identify potential changes that may increase that value
- Recommend actions that R&E Federations and others can take to increase their value



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Mailing List

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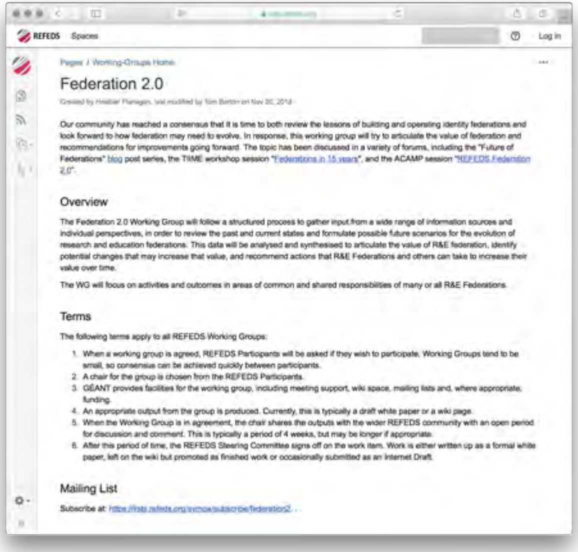

Federation 2.0

Created by Heather Flanagan, last modified by Tom Barton on Nov 20, 2018

Our community has reached a consensus that it is time to both review the lessons of building and operating identity federations and look forward to how federation may need to evolve. In response, this working group will try to articulate the value of federation and recommendations for improvements going forward. The topic has been discussed in a variety of forums, including the "Future of Federations" blog post series, the TIIME workshop session "Federations in 15 years", and the ACAMP session "REFEDS Federation 2.0".

Overview

The Federation 2.0 Working Group will follow a structured process to gather input from a wide range of information sources and individual perspectives, in order to review the past and current states and formulate possible future scenarios for the evolution of research and education federations. This data will be analysed and synthesised to articulate the value of R&E federation, identify potential changes that may increase that value, and recommend actions that R&E Federations and others can take to increase their value over time.

The WG will focus on activities and outcomes in areas of common and shared responsibilities of many or all R&E Federations.

Terms

The following terms apply to all REFEDS Working Groups:

1. When a working group is agreed, REFEDS Participants will be asked if they wish to participate. Working Groups tend to be small, so consensus can be achieved quickly between participants.
2. A chair for the group is chosen from the REFEDS Participants.
3. GÉANT provides facilities for the working group, including meeting support, wiki space, mailing lists and, where appropriate, funding.
4. An appropriate output from the group is produced. Currently, this is typically a draft white paper or a wiki page.
5. When the Working Group is in agreement, the chair shares the outputs with the wider REFEDS community with an open period for discussion and comment. This is typically a period of 4 weeks, but may be longer if appropriate.
6. After this period of time, the REFEDS Steering Committee signs off on the work item. Work is either written up as a formal white paper, left on the wiki but promoted as finished work or occasionally submitted as an Internet Draft.

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Working Group:
REFEDS Federation 2.0

How will they impact implementations?

Too soon to say. This working group will evaluate several contingencies and potential changes to R&E federations, and the impact on implementations isn’t known yet.

How will they impact R&E constituents?

Similarly, impacts depend on the recommendations. Actions undertaken could be substantial for eduGAIN, R&E federations, and other constituencies.

5min

Context

Objectives
Landscape

10min

Activities

Working Groups
Deliverables
Impacts

Roland
Rachana
Albert

30min

Perspectives

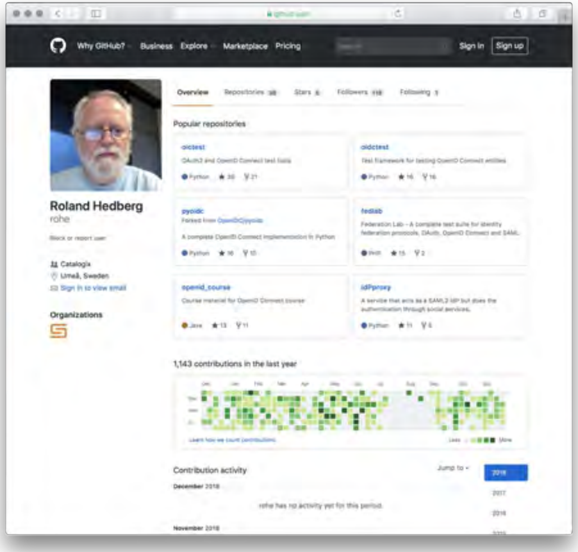
Developer
Standards bodies
Research community proxy
Research service provider
Federation operator

5min

Conclusion

Summary
Recommendations

Roland Hedberg
Perspective(s): developer, standards bodies



Roland Hedberg
rohe

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Organizations

Popular repositories

oictest
OAuth2 and OpenID Connect test tools
Python ★ 30 21

oidctest
Test framework for testing OpenID Connect entities
Python ★ 16 16

pyoidc
Forked from OpenIDC/pyoidc
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Python ★ 16 10

fedlab
Federation Lab - A complete test suite for identity federation protocols, OAuth, OpenID Connect and SAML.
Shell ★ 15 2

openid_course
Course material for OpenID Connect course
Java ★ 13 11

idPproxy
A service that acts as a SAML2 IdP but does the authentication through social services.
Python ★ 11 6

1,143 contributions in the last year

Learn how we count contributions
Less More

Contribution activity

December 2018

rohe has no activity yet for this period.

November 2018

Developers contribute to and draw from the work of standards bodies and their working groups.

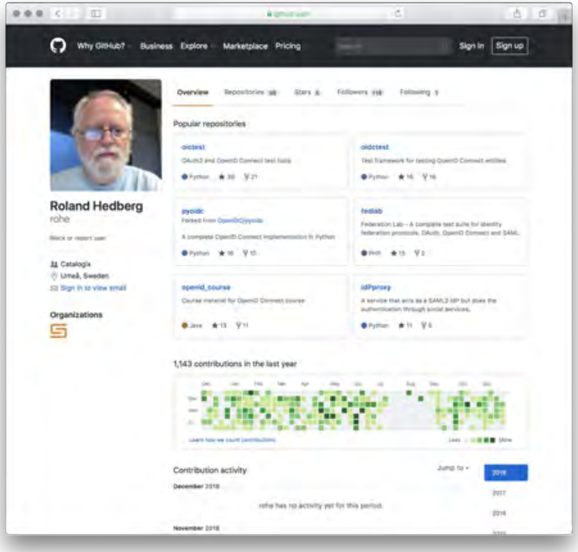
Which of the aforementioned OIDC-OAuth working groups are you participating in and why?

All the above because so far they have been dealing with different pieces of the puzzle.

What's the status of the OpenID Connect Federation standard?

It's hard to say. The major parts I think are accepted but as always the devil is in the details.

The engine is there but some of the behavior is not nailed down.



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November 2018

2018
2017
2016

Roland Hedberg
Perspective(s): developer, standards bodies

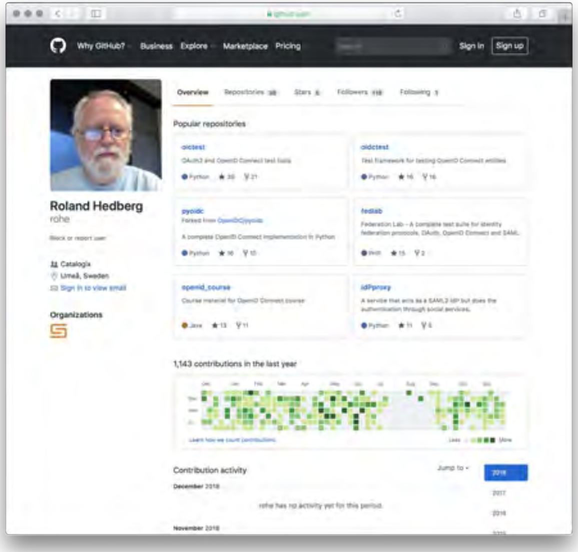
What other OIDC and OAuth standards and profiles should the R&E community be aware of?

- The OIDF HEART and iGov profiles.
- OAuth PoP access token/token binding
- OAuth Distributed oauth/resource indicators

The IETF OAuth working group has decided clients SHOULD NOT use the “implicit” grant.

How significant is this to the development of secure implementations in the R&E community?

I think the R&E community would do well to stay away from “Implicit” grant.



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Roland Hedberg
Perspective(s): developer, standards bodies

In early 2018 you implemented your 2nd OIDC relying party library and lamented on Twitter that tests against a number of identity providers showed they had non-standard implementations.

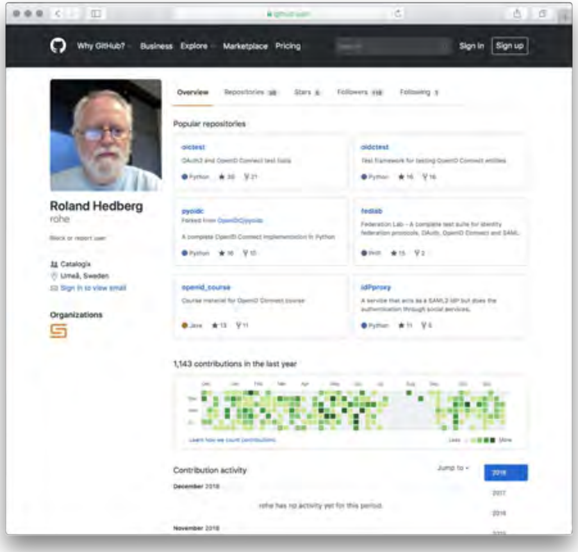
Unfortunately a number of big identity providers seems to think they are above such mundane things as standards.

In 2018, the OpenID Certification program won the IDnext Identity Innovation Award. How do certification programs help developers?

A number of developers are using the test suite as an addition to their unit tests.

What can the R&E community learn from this program and apply to our activities in 2019?

Never ever buy or use anything that is not certified!!!



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Jump to

2018
2017
2016

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Roland Hedberg
Perspective(s): developer, standards bodies

Developers also rely on feedback from those who deploy and use their software implementations.

In 2019, what OIDC and OAuth software projects will be the most relevant to the R&E community?

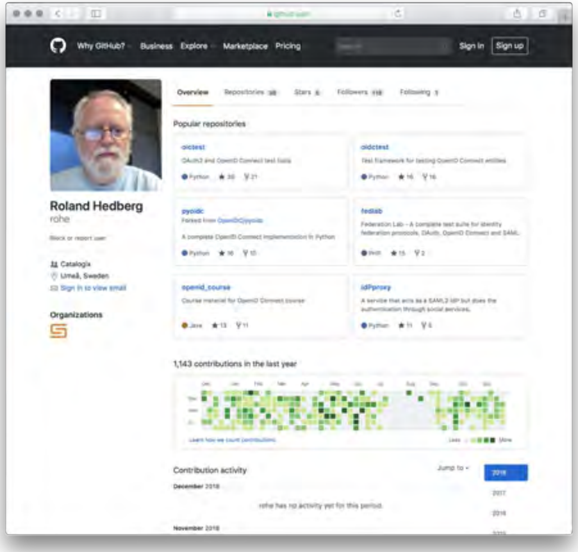
The JWTConnect RP libraries, the SATOSA proxy, and the GÉANT Shibboleth OIDC Extension.

What kinds of deployments and what type of feedback will be useful to these projects?

No software is *done*, it is honed and refined based on user experience.

Which is more important to developers: conformance tests or deployment guides?

Depends on type of developer.



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Perspective(s): developer, standards bodies

If you could travel into the future a few years to collect data on OIDC deployments, what would you want to observe and learn from the future to apply to what we're doing in 2019.

- Special case federations
- Authorization services
- SAML out - OIDC/OAuth2 in

5min

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Rachana Ananthakrishnan

Perspective(s): research community proxy, research service providers

Globus Auth provides foundational IAM services to research communities

- OIDC Provider
- OAuth 2.0 Authorization service
- Federated logins
- Single hosted scalable instance

Use cases

- User login to applications
- Apps accessing services on behalf of users
- Services accessing services
- Service access as itself

Some metics

- Federated identity providers: 500+
- Registered applications: ~1100
- Registered services: ~60

Globus Platform-as-a-Service

The Globus platform enables developers to provide robust file transfer, sharing and search capabilities within their own research data applications and services, while leveraging advanced identity management, single sign-on, and authorization capabilities.

Globus Platform-as-a-Service

Globus: The Platform for Research Data Applications and Services

Your portal, science gateway, web or mobile application now has access to all file transfer, sharing and search capabilities provided by Globus. The platform exposes the same APIs we use for our own web application that serves the data management needs of over 50,000 researchers around the world.

Login/logout, access control, identity and profile management are common to all applications. Why waste precious resources building mundane—but necessary—functions? By outsourcing these aspects to Globus you can focus all your efforts on core application logic.

Why Use the Globus Platform?

Provide scalable, secure solutions to your research community:

Why Subscribe?

Find out why so many leading organizations are Globus subscribers

What's New

New web app: Check out our new, more intuitive and responsive UI

Protected Data Support: Use Globus to manage data requiring higher assurance levels (e.g. HIPAA data)

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Globus Auth is a standards-based identity broker that facilitates authentication and authorization from hundreds of identity providers

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Rachana Ananthakrishnan
Perspective(s): research community proxy, research service providers

Why are open standards and the sustaining activities of federations are key?

R&E is unique: collaboration across organizational security boundaries

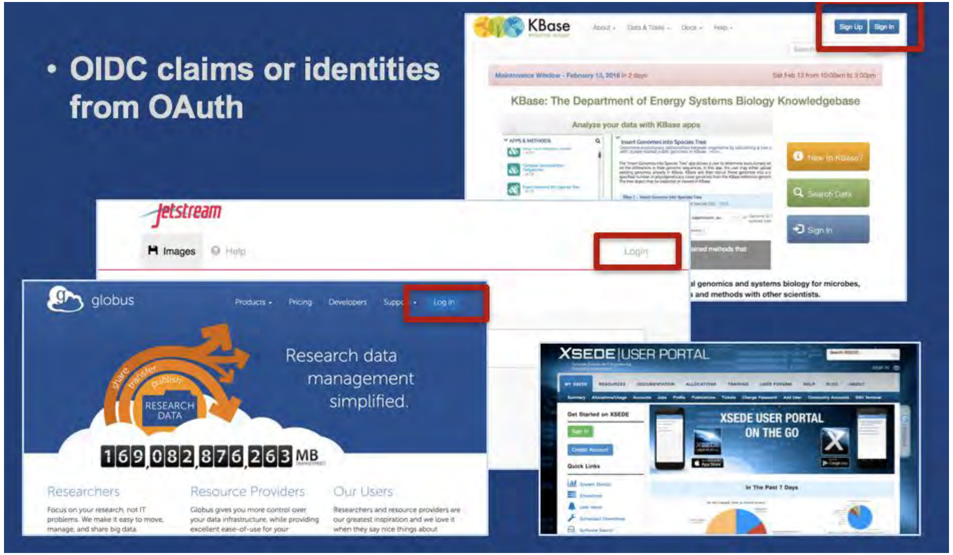
- Accepted and trusted standards are pivotal to interoperability; enables business functions

Need end-to-end trust and communication

- E.g. User authorization error due to ePTIDs change?! What does it take to solve that?

Attributes are key

- Authorization policies often rely on ePPN
- For scale, other attributes are required in policy (e.g. provide access to all staff)



- OIDC claims or identities from OAuth

Rachana Ananthakrishnan

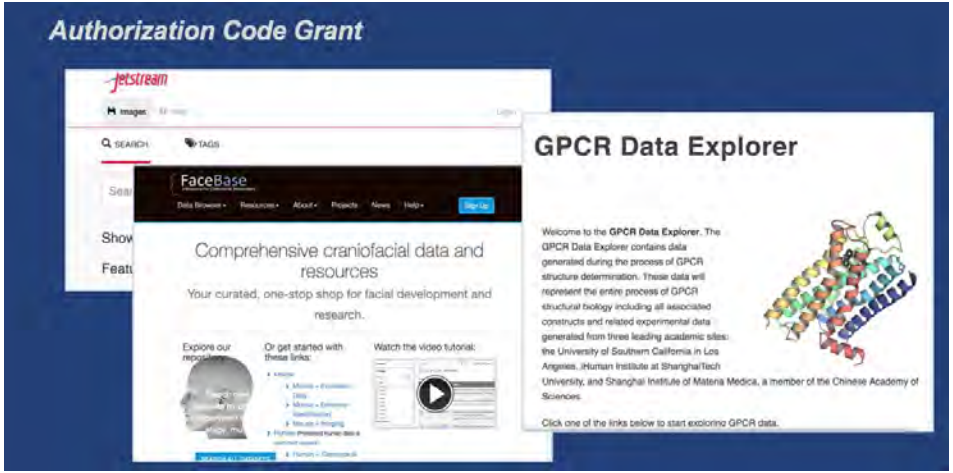
Perspective(s): research community proxy, research service providers

Federated logins

- InCommon IdPs via CILogon
- Project/division options: XSEDE, Argonne Leadership Computing Facility etc.
- Others: ORCID, Google.
- Globus Auth acts as proxies and issues tokens to applications and services

Baseline expectations

- Research and Scholarship attributes
  - Persistent, non-reassigned, non-targeted identifier, Name, Email, ePPN
- For other Identity Providers
  - No enforced requirement
  - Since authorization is managed by resource owner, they manage the trust relationship



Authorization Code Grant

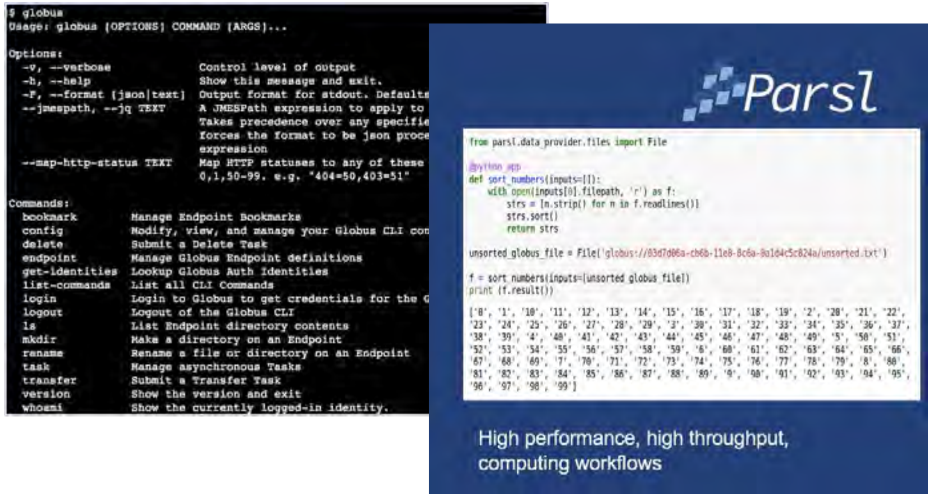
Comprehensive craniofacial data and resources

Your curated, one-stop shop for facial development and research.

GPCR Data Explorer

Welcome to the **GPCR Data Explorer**. The GPCR Data Explorer contains data generated during the process of GPCR structure determination. These data will represent the entire process of GPCR structural biology including all associated constructs and related experimental data generated from three leading academic sites: the University of Southern California in Los Angeles, iHuman Institute at ShanghaiTech University, and Shanghai Institute of Materia Medica, a member of the Chinese Academy of Sciences.

Click one of the links below to start exploring GPCR data.



```
$ globus
Usage: globus [OPTIONS] COMMAND [ARGS]...

Options:
  -v, --verbose              Control level of output
  -h, --help                 Show this message and exit.
  -F, --format [json|text]   Output format for stdout. Defaults
  --jmespath, --jq TEXT      A JMESPath expression to apply to
                             Takes precedence over any specifie
                             forces the format to be json proce
                             expression
  --map-http-status TEXT     Map HTTP statuses to any of these
                             0,1,50-99. e.g. "404=50,403=51"

Commands:
  bookmark          Manage Endpoint Bookmarks
  config            Modify, view, and manage your Globus CLI con
  delete            Submit a Delete Task
  endpoint          Manage Globus Endpoint definitions
  get-identities    Lookup Globus Auth Identities
  list-commands     List all CLI Commands
  login             Login to Globus to get credentials for the G
  logout            Logout of the Globus CLI
  ls                List Endpoint directory contents
  mkdir             Make a directory on an Endpoint
  rename            Rename a file or directory on an Endpoint
  task              Manage asynchronous Tasks
  transfer          Submit a Transfer Task
  version           Show the version and exit
  whoami            Show the currently logged-in identity.
```

```
from parsl.data_provider.files import File

@python_app
def sort_numbers(inputs=[]):
    with open(inputs[0].filepath, 'r') as f:
        strs = [n.strip() for n in f.readlines()]
        strs.sort()
        return strs

unsorted_globus_file = File('globus://03d7d06a-cb6b-11e8-8c6a-0a1d4c5c824a/unsorted.txt')

f = sort_numbers(inputs=[unsorted_globus_file])
print (f.result())

['0', '1', '10', '11', '12', '13', '14', '15', '16', '17', '18', '19', '2', '20', '21', '22',
'23', '24', '25', '26', '27', '28', '29', '3', '30', '31', '32', '33', '34', '35', '36', '37',
'38', '39', '4', '40', '41', '42', '43', '44', '45', '46', '47', '48', '49', '5', '50', '51',
'52', '53', '54', '55', '56', '57', '58', '59', '6', '60', '61', '62', '63', '64', '65', '66',
'67', '68', '69', '7', '70', '71', '72', '73', '74', '75', '76', '77', '78', '79', '8', '80',
'81', '82', '83', '84', '85', '86', '87', '88', '89', '9', '90', '91', '92', '93', '94', '95',
'96', '97', '98', '99']
```

High performance, high throughput, computing workflows

Rachana Ananthakrishnan
Perspective(s): research community proxy, research service providers

Building applications

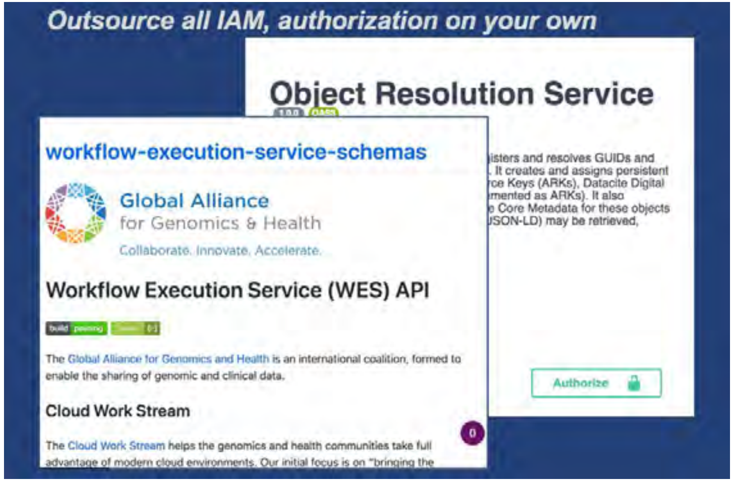
- Libraries and client tools, e.g. PyOIDC, OAuthLib
- Use of supported client code e.g. Atlassian products, Apache, etc
- Discovery of scopes

It is not all about browsers

- Native application/command line applications
- Automation and long running tasks
- Use of Service accounts

Supported grants

- Authorization code grant
- Client credentials grant
- Native app grant
- Implicit grant*



Outsource all IAM, authorization on your own

Object Resolution Service

...isters and resolves GUIDs and
. It creates and assigns persistent
...ce Keys (ARKs), Datacite Digital
...mented as ARKs). It also
...e Core Metadata for these objects
...JSON-LD) may be retrieved.

Authorize

workflow-execution-service-schemas

Global Alliance for Genomics & Health

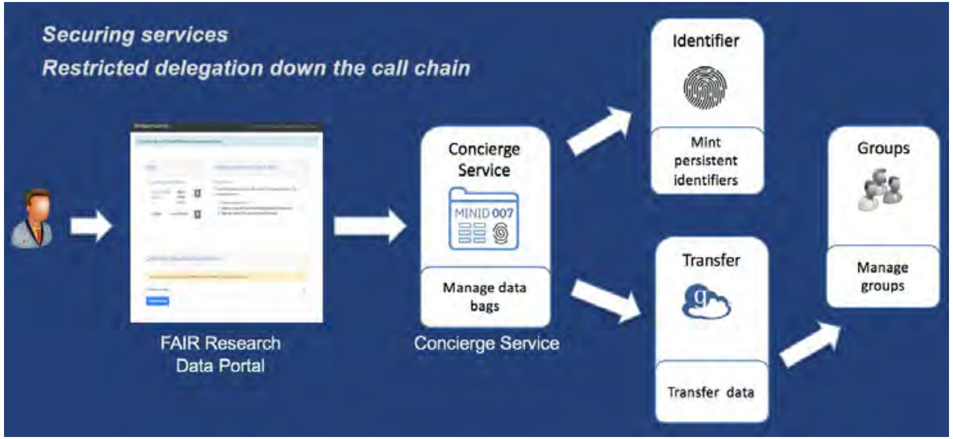
Collaborate. Innovate. Accelerate.

Workflow Execution Service (WES) API

The Global Alliance for Genomics and Health is an international coalition, formed to enable the sharing of genomic and clinical data.

Cloud Work Stream

The Cloud Work Stream helps the genomics and health communities take full advantage of modern cloud environments. Our initial focus is on "bringing the



Securing services

Restricted delegation down the call chain

Rachana Ananthakrishnan

Perspective(s): research community proxy, research service providers

Securing services

- Register service
- Custom scopes
- Discovery of scopes

Service to service

- Dependent tokens
- User facing consents for the tree

User authorization at the service

- Identity, security context provided
- Authorization policy stored and managed by the service

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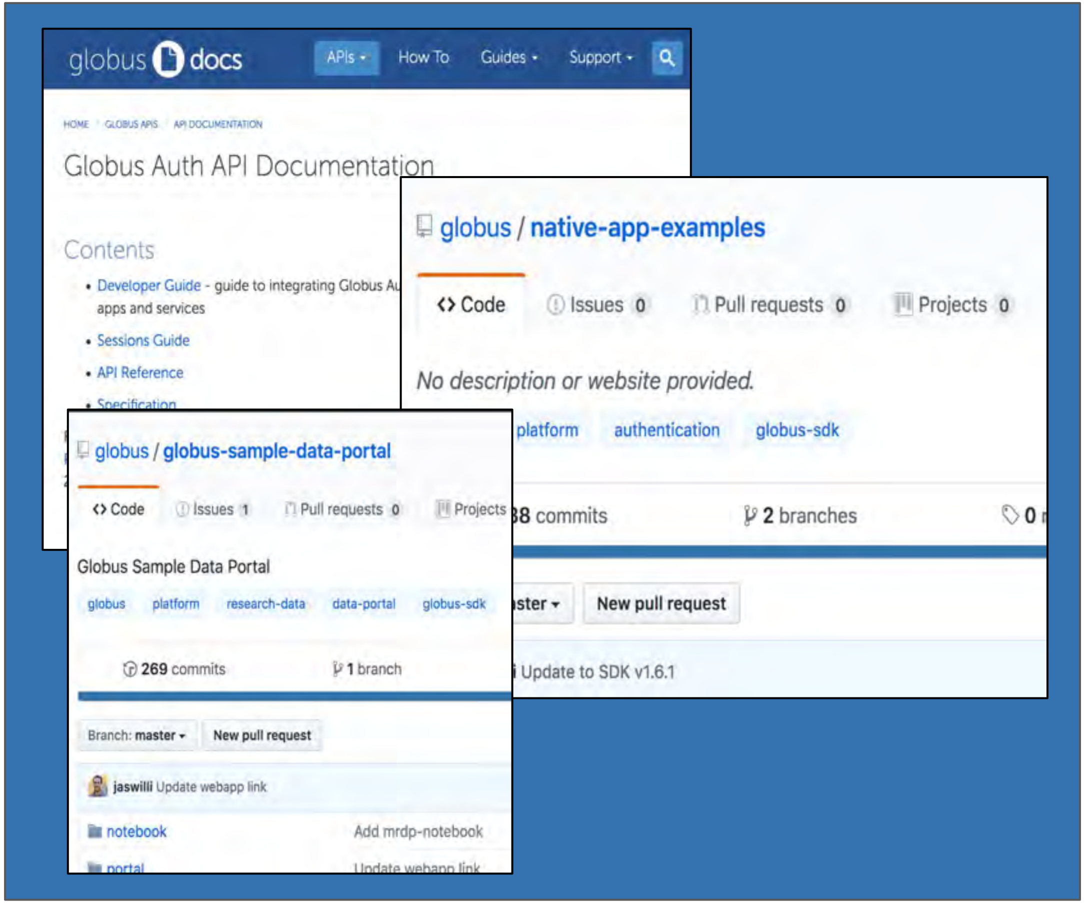
Rachana Ananthakrishnan
Perspective(s): research community proxy, research service providers

How does Globus translates the capabilities of OIDC and OAuth into a useful set of features for customers?

- End users
- Developers
- Patterns and solutions
- Training and outreach



Globus Auth API Documentation

Contents

- Developer Guide - guide to integrating Globus Au apps and services
- Sessions Guide
- API Reference
- Specification

globus / native-app-examples

No description or website provided.

platform authentication globus-sdk

38 commits 2 branches 0

ster New pull request

Update to SDK v1.6.1

globus / globus-sample-data-portal

Globus Sample Data Portal

globus platform research-data data-portal globus-sdk

269 commits 1 branch

Branch: master New pull request

jaswilli Update webapp link

notebook	Add mrdp-notebook
portal	Update webapp link

Rachana Ananthakrishnan
Perspective(s): research community proxy, research service providers

Globus aims to streamline the onboarding of customers and their services into its ecosystem.

- Lots of outreach & training - patterns, examples, guides, sample code

In 2019, what changes, resources, and sustaining activities will help Globus customer integrations:

- Home organization (IdP) adoption of OIDC
- Community-supported libraries and tools
- “Common” ways of handling tokens

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InCommon.

Albert Wu
Perspective(s): Federation operator

Readying InCommon Federation for OIDC/OAuth

InCommon Federation is about engendering trust and interoperability on a global scale.

Its goal is to streamline and simplify research and scholarly collaboration.

Engendering trust and interoperability is not protocol dependent.

SAML is a technical protocol Federations use to convey trust today.

InCommon Federation and SAML need not be synonymous.

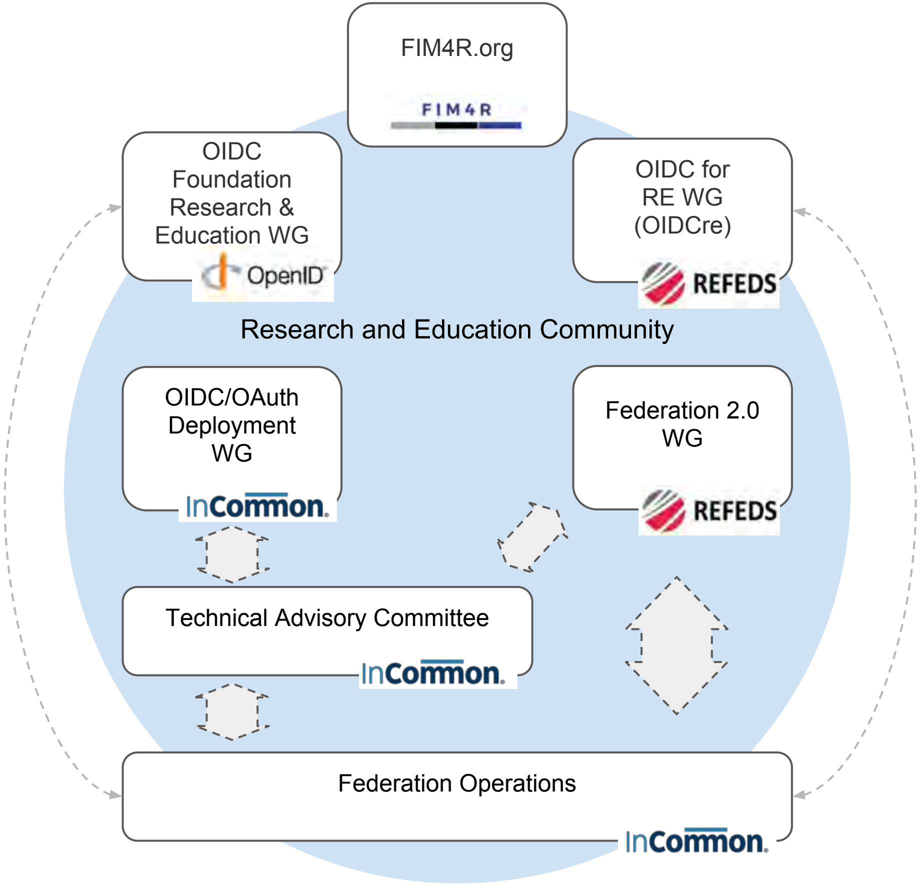
InCommon	For SAML	For OIDC/OAuth	Federation Role
Governance	● **By community, for community** ● **Represented by InCommon and eduGAIN Steering + advocates such as FIM4R** ● **Technology neutral**		Manage
Policy & Practices	● **Baseline Expectations** ● **SIRTFI** ● **Operations Agreements** ● **Privacy, Consent**		
Infrastructure & Tooling	● Scalable, global endpoint discovery ● Metadata exchange ● System monitoring ● IDP/OP, SP/RP, Access Management Software		Develop (in collaboration); Operate
Protocol (Grammar)	● SAML	● OIDC ● OAuth ● **OIDC Federation**	Facilitate
Claims, Scopes, Entitlements (Meaning)	● **eduPerson** ● **SCHAC**		
	● SAML2Int	● **OIDC Profile for eduPerson**	

Albert Wu
Perspective(s): Federation operator

Readying InCommon Federation for OIDC/OAuth

As a Federation Operator:

- Core sustaining federation activities are not specific to supporting SAML
  - Governance
  - Policy & Practices
  - Evolving infrastructure to be multi-protocol friendly
- Engaging international R&E, industry, and IDM community to foster common standards
  - Reduce duplication of efforts
  - Improve interoperability
  - Learn from deploying SAML - agreeing on the meaning of vocabulary is important to scaling interoperability
- Resource is limited. We need your participation to prioritize.



Albert Wu
Perspective(s): Federation operator

InCommon Federation
Engagements in OIDC/OAuth for R&E Development

- Need a root of trust
  - Protocol: (Roland's / Andreas' OIDC Federation work)
  - Policy/Practice: Federation 2.0 WG? Others?
- Need to map attributes / schemas / entity attributes into:
  - Claims, Metadata statements
  - Scopes
  - Some way to represent group membership or entitlements
  - REFEDS OIDCre, OIDF R&E? Others?
- Need an operational model that comes out of our experience running federations, combined with Roland and Andreas' work
- Need translation between SAML and OIDC claims
  - REFEDS OIDCre WG

Albert Wu
Perspective(s): Federation operator

Suggestion for home organizations (IdPs)

- Participate in key working groups
  - REFEDS Federation 2.0 WG
  - OIDF R&E WG
  - OIDCre WG
- Ready your IAM data management and governance practices, e.g.,
  - Do you have a scalable strategy for managing non-human subjects and system-to-system access in a cloud-centric, API-driven, IoT ecosystem?
  - Do you have a source of persistent, non-reassigned, consistent-for-each-subject identifier?
- Attempt a view from a different perspective:
  - What do your researchers need?
  - What does your applications community need?
- Share your success (and challenges). Interoperable solutions only appear if we work together.

Albert Wu
Perspective(s): Federation operator

Suggestion for research service providers

- Be heard: engage in FIM4R and similar advocacy groups
- Participate in key working groups
  - REFEDS Federation 2.0 WG
  - OIDF R&E WG
  - OIDCre WG
- Proxies address near term needs. Don’t stop there. Without your voice, the federation won’t evolve to meet your needs.
- Share your success (and challenges). Interoperable solutions only appear if we work together.

5min

Context

Objectives
Landscape

10min

Activities

Working Groups
Deliverables
Impacts

30min

Perspectives

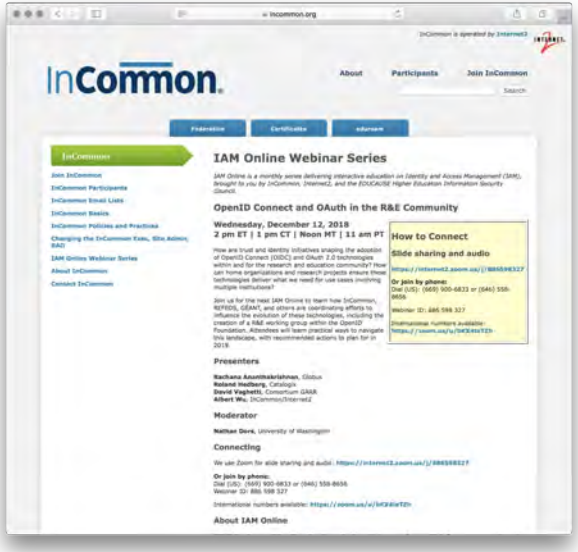
Developer
Standards bodies
Research community proxy
Research service provider
Federation operator

Nathan

5min

Conclusion

Summary
Recommendations



IAM Online Webinar Series

IAM Online is a monthly series delivering interactive education on Identity and Access Management (IAM), brought to you by InCommon, Internet2, and the EDUCAUSE Higher Education Information Security Council.

OpenID Connect and OAuth in the R&E Community

Wednesday, December 12, 2018
2 pm ET | 1 pm CT | Noon MT | 11 am PT

How are trust and identity initiatives shaping the adoption of OpenID Connect (OIDC) and OAuth 2.0 technologies within and for the research and education community? How can home organizations and research projects ensure these technologies deliver what we need for use cases involving multiple institutions?

Join us for the next IAM Online to learn how InCommon, REFEDS, GÉANT, and others are coordinating efforts to influence the evolution of these technologies, including the creation of a R&E working group within the OpenID Foundation. Attendees will learn practical ways to navigate this landscape, with recommended actions to plan for in 2019.

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Presenters

Rachana Ananthakrishnan, Globus
Roland Hedberg, Catalogix
David Vaghetti, Consortium GARR
Albert Wu, InCommon/Internet2

Moderator

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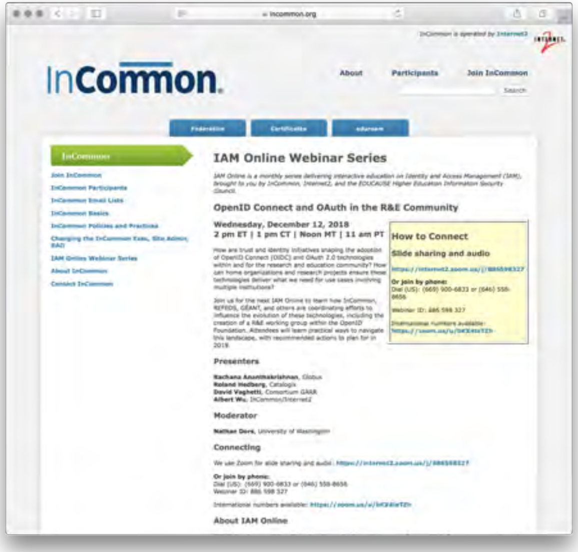
About IAM Online

Summary

Research communities and research service providers are successfully using OIDC and OAuth.

Some are doing so through research community proxies, platforms and ecosystems like Globus, and architectures based on the AARC Blueprint Architecture.



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About IAM Online

Summary

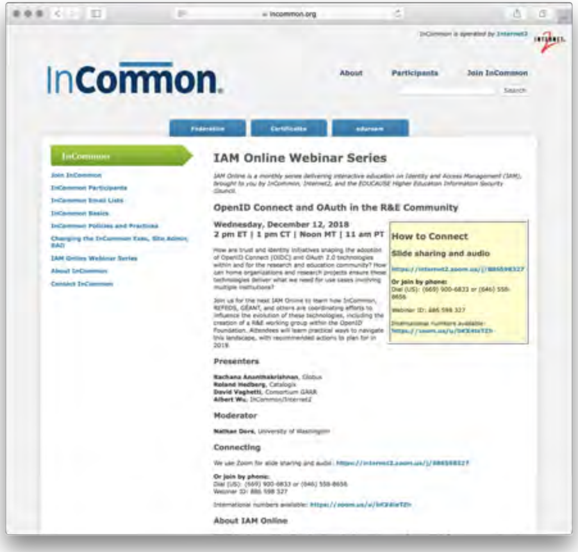
In today's IAM Online, you've heard about the working group activities shaping the adoption of OIDC and OAuth within and for the R&E community, including development of new standards for trust and scalable multi-lateral federations… Now it's over to you!

OpenID Foundation R&E WG
Next meeting : Monday, December 17

OIDC-OAuth Deployment WG
Next meeting: Tuesday, December 18

REFEDS OIDCre WG
Email list is active.

REFEDS Federation 2.0
Open call - initial meeting in January



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About IAM Online

Recommendations

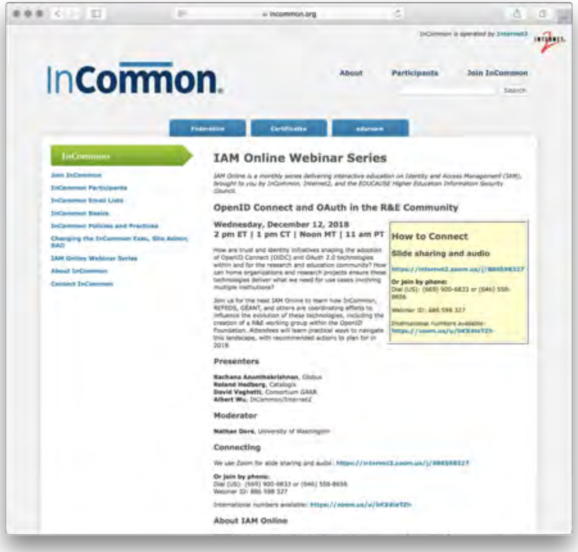
Interested in standards development?
Join OIDF R&E WG
Contribute to OIDC specifications

Interested in evolving R&E federations?
Join REFEDS Federation 2.0 WG
Contribute input and ideas

Less time, but want to contribute?
Watch for milestone updates
Provide feedback on draft deliverables
Test OIDC software against your needs
Contribute to deployment guides

Running Shibboleth Identity Provider software?
Upgrade to V3.4.1 or newer
Consider your use cases, web and non-web
Test the GÉANT Shibboleth OIDC Extension
Provide feedback

Have thoughts, questions, or not sure what to do?
Contact CACTI (Community Architecture Committee for Trust and Identity) at cacti-inquiry@internet2.edu.



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About IAM Online

Thank you!

IAM Online wouldn’t exist without the contributions and participation of this community.

Thanks to today’s gracious presenters, Davide, Roland, Rachana, and Albert. We appreciate each of you and your collective perspectives.

Additional thanks to Internet2 and EDUCAUSE for supporting IAM Online, especially Dean Woodbeck and Emily Eisbruch.

We’re looking forward to more progress in 2019 - Happy New Year!

OpenID Connect and OAuth in the R&E Community

References

AARC (Authentication and Authorization for Research and Collaboration)
https://aarc-project.eu/

FIM4R (Federated Identity Management for Research)
https://fim4r.org/

GÉANT Shibboleth OIDC Extension
https://github.com/CSCfi/shibboleth-idp-oidc-extension

Globus - Platform-as-a-Service
https://www.globus.org/platform

InCommon OIDC/OAuth Deployment Working Group
https://spaces.at.internet2.edu/x/jJiTBg

JWTConnect libraries
https://github.com/openid/jwtconnect.io

OpenID Foundation Research & Education (R&E) Working Group
https://openid.net/wg/rande/

REFEDS Federation 2.0 Working Group
https://wiki.refeds.org/display/GROUPS/Federation+2.0

REFEDS OIDCre (OpenID Connect for Research & Education) Working Group
https://wiki.refeds.org/display/GROUPS/OIDCre

SATOSA Proxy
https://github.com/IdentityPython/SATOSA

Please evaluate today’s session

https://www.surveymonkey.com/r/IAMOnline-Dec2018

January 2019 IAM Online

Per-Entity Metadata Service on the Horizon

This IAM Online will cover the requirements for, status of, and next steps for deployment of the new InCommon Federation metadata service.

January 16, 2019
2 pm ET | 1 pm CT | Noon MT | 11 am PT

Business needs, use cases, scenarios

What are researchers and research communities trying to do?

Researchers

Research communities

GÉANT, Internet2, NRENS

Activities & working groups

What activities and working groups are needed to support research collaboration? What deliverables will they produce?

- OIDF
- REFEDS
- InCommon OIDC-OAuth Deployment
- REFEDS OIDCre
- OIDF R&E
- OIDF A/B
- IETF OAuth
- Others. . .

Standards & profiles

What standards and profiles do we need in order to design useful software implementations and services?

- OIDC Conformance Profiles
- OIDC Discovery
- OIDC Core
- SAML2 OIDC Mapping
- OIDC R&E Profile
- OIDC Federation 1.0
- OAuth 2.0
- Others. . .

Software implementation, services, guides

What what software, services, and guides do deployers have to choose from? What guides and training help selection?

- GÉANT Shib OIDC Plugin
- Shib IdP 3.4
- SATOSA
- JWT Connect OIDC
- Globus Auth
- mod_oidc
- CAS
- Others. . .

Deployments & integrations

What's being deployed and how is it integrated? What are typical configurations, customizations, and anti-patterns for different participants/contexts?

- GÉANT, Internet2, NRENS
- Research communities
- Home organizations
- eduGAIN
- Federations
- Research e-infrastructures
- Others. . .

Operations & sustaining

How do deployers operate, improve, coordinate, and advocate for deployments? How are baseline expectations managed?

- Baseline expectations
- Code of conduct
- Operational plans
- Assessments
- Processes
- Funding plans
- Others. . .

Use, results, outcomes

What were the results of our deployments? What new business needs emerge from real-world use?

Research communities

Researchers