

SeamlessAccess with OI DFed Support

Gabriel Zachmann

Diana Gudu

Kushal Das

Mihály Héder

Niels van Dijk

Zacharias Törnblom

Andrijana Todosijevic



Integrate the SeamlessAccess with OpenID Federation:

- Show OIDC OPs the same way as SAML IdPs - in synergy with the eduGAIN OIDFed PoC project.

1. Investigate OpenID Federation discovery



Discovery Flow

2. Investigate OP listing methods, OIDFed Spec



Entity Collection endpoint

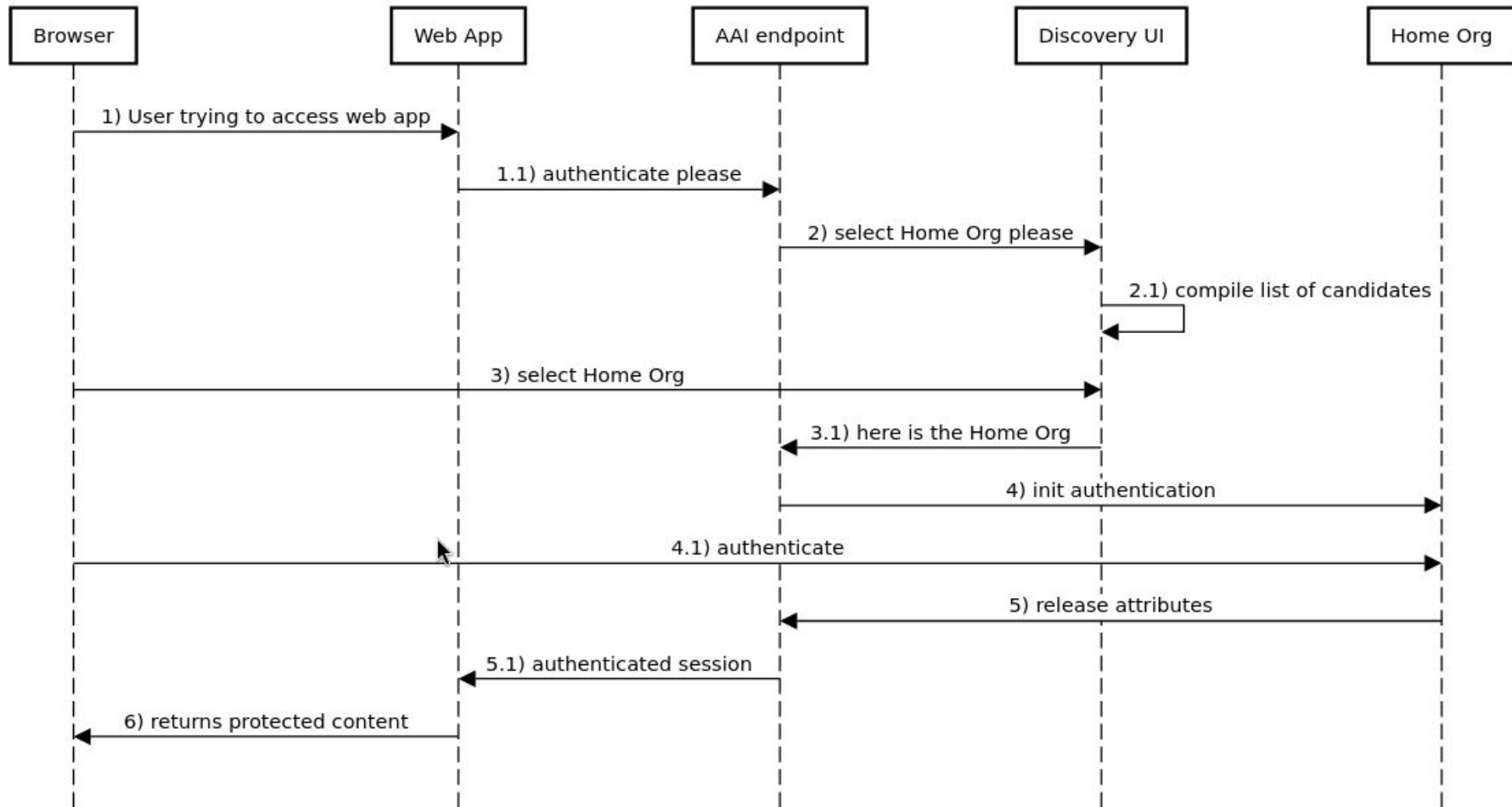
Propose additional metadata claims to the OpenID Federation specification

3. Investigate SeamlessAccess architecture



Identified points of integration

Discovery



- Draft for an extension to the OpenID Federation specification
- Goal: Well-defined mechanism to obtain a filterable list of all(*) Entities in a federation
 - Primary intent: UI purposes, e.g. OP selection (*) Not only direct subordinates
- Request: flexible filters
- Response: List of Entities with their UI related Claims
- Need for additional UI related Claims in the OIDFed spec
 - Submitted PR; accepted
- GitHub Repo: <https://github.com/zachmann/openid-federation-entity-collection>
- Issue Discussions: <https://github.com/zachmann/openid-federation-entity-collection/issues>
- Rendered Version:
<https://zachmann.github.io/openid-federation-entity-collection/main.html>

Entity Collection Endpoint - Examples

Example Request

```
GET /collection?entity_type=openid_provider&  
trust_mark_type=https://rp.refeds.org/sitfi&  
trust_anchor=https://swamid.se HTTP/1.1  
Host: openid.sunet.se
```

Example Response Entity Entry

```
1 {  
2   entity_id: https://fedop.example.com,  
3   entity_types: [  
4     federation_entity,  
5     openid_provider  
6   ],  
7   ui_infos: {  
8     openid_provider: {  
9       display_name: Example OP,  
10      keywords: [  
11        foo,  
12        bar  
13      ],  
14      logo_uri: https://fedop.example.com/static/img/logo.png,  
15      policy_uri: https://fedop.example.com/policy  
16    },  
17    federation_entity: {  
18      logo_uri: https://fedop.example.com/static/img/logo.png  
19    }  
20  }  
21 }
```

Improving the user experience for identity provider discovery

- REFEDS discovery guide (circa 2012)
- "RA21" (circa 2019)
- Founded by Géant, Internet2, NISO, and STM Publishers (and ORCID)
- A lot of voluntary engagement from interested parties
- Weekly Technical development-, and non-technical meetings
- Monthly Operations, and Outreach meetings
- Monthly Governance meetings

Not just technology

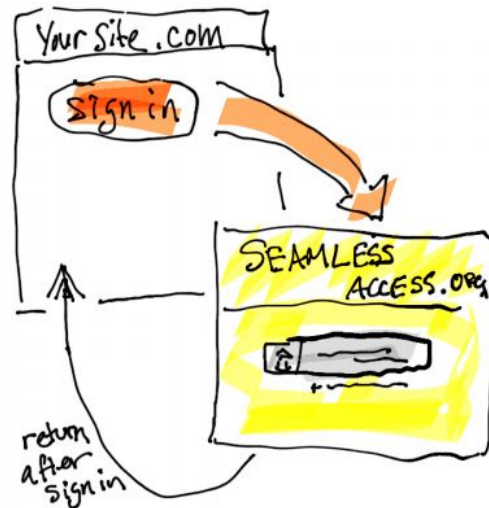
- Industry engagement
- Best practices for user interfaces of login
- Toolkit on best practices for libraries
- Community for promoting federated access
 - Used with many of the large and smaller publishers

How its used and how it works

- Limited integration
- Standard integration
- Advanced integration

How its used and how it works

- Limited integration



How its used and how it works

- Limited integration
 - Use with what you got

CERN Single Sign-On

Sign in with a CERN account


Username

Password

Sign In


[Forgot Password?](#)


Or use another login method

 Kerberos

By logging in, you agree to comply with the [CERN Computing Rules](#), in particular OC5. CERN implements the measures necessary to ensure compliance.


Sign in with your email or organisation


 Home organisation - eduGAIN


 External email - Guest access


Sign in with a social account

By clicking on the buttons below, you consent to CERN's transfer of your login request to the social provider and to receive your account name, name and e-mail for authenticating you. See more details in our [Privacy Notice](#).

 Google

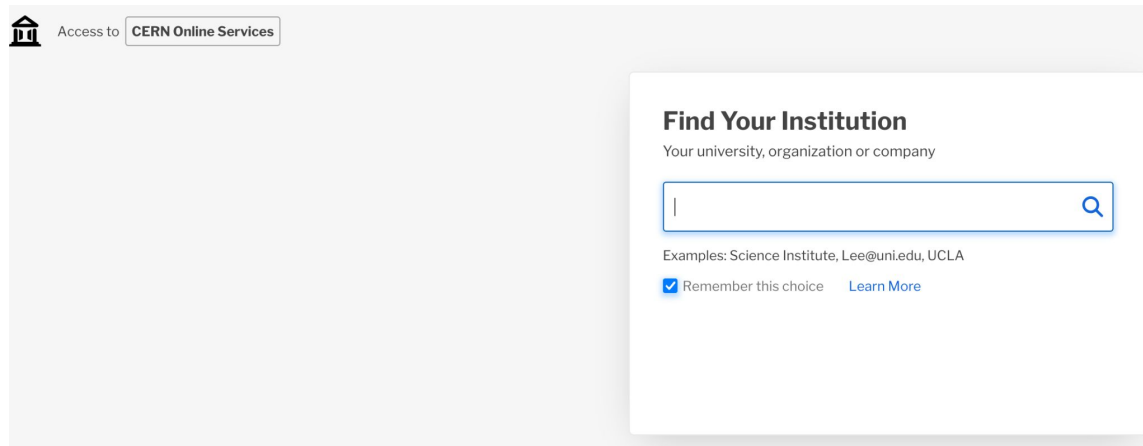
 GitHub

 Facebook

 LinkedIn

How its used and how it works

- Limited integration
 - Discovery
 - Metadata



The screenshot displays the SeamlessAccess user interface. At the top left, there is a house icon and the text "Access to CERN Online Services". The main area is a light gray rectangle. On the right side, a white modal box titled "Find Your Institution" is overlaid. Below the title, it says "Your university, organization or company". There is a search input field with a magnifying glass icon on the right. Below the input field, it lists "Examples: Science Institute, Lee@uni.edu, UCLA". At the bottom of the modal, there is a checked checkbox labeled "Remember this choice" and a link labeled "Learn More".


How its used and how it works

- Standard integration





How its used and how it works

- Standard integration
 - Recognisable
 - Accessibility
 - Persistence

eduSign

eduSign - Secure digital signature

 **Access through your institution**

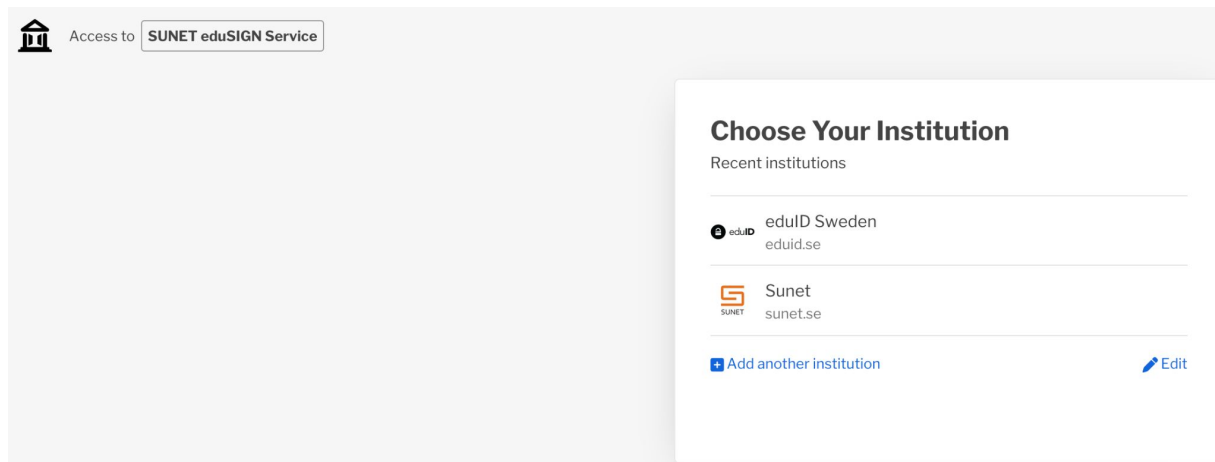
To sign

This service can be used to upload and sign PDF-documents or XML-documents. This is done easily by performing the following steps:

1. Upload documents to sign
2. Confirm the uploaded documents are correct
3. Identify yourself with the appropriate SWAMID electronic ID
4. Download signed document


How its used and how it works

- Standard integration
 - Discovery
 - Metadata



How its used and how it works

- Advanced integration
 - Follow UX guidelines
 - Persistence

 Access through your organization


Purchase PDF



Annales de Paléontologie
Volume 104, Issue 2, April–June 2018, Pages 149-153

Original article

Discovery of a new fossil soldier beetle in
Eocene Baltic amber, with the establishment



Find your organization

To access Elsevier content through your organization, enter your organization name or email address, then select it from the list.

Once authenticated you will be sent back to Elsevier to continue.

Organization name or email

Ab

ABB AB

Abertay University

Abcam plc

ABFI Institute Perbanas

Aba Teachers University

Can't find your institution? Refine your search.
Use city or country name to narrow down the results.

Submit and continue ↗

Get help with access

How its used and how it works

- The components
 - The "Smart button"
 - Persistence service
 - Discovery page
 - Metadata query
 - Filtering capability

How its used and how it works

- The components
 - The "Smart button"
 - Persistence service
- A word on browsers
 - Use of third party storage
 - Smells like..
 - Storage access API



Find Your Institution

Your university, organization or company

Examples: Science Institute, Lee@uni.edu, UCLA

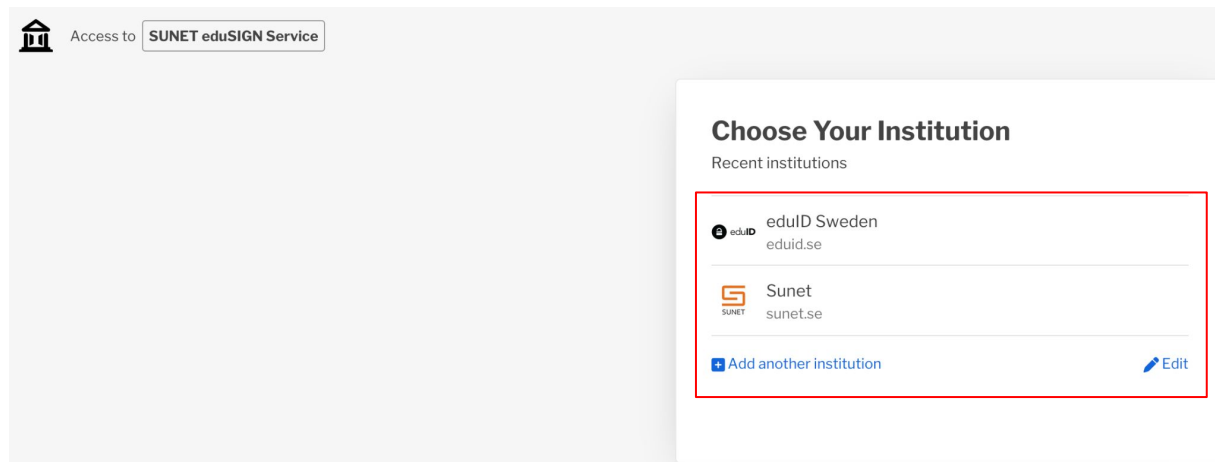
☒ Remember this choice [Learn More](#)

GÉANT Staff Identity Provider



How its used and how it works

- The components
 - Persistence service
 - Discovery page



How its used and how it works

- The components
 - Persistence service
 - Discovery page

Access to **SUNET eduSIGN Service**

Find Your Institution

Your university, organization or company

Examples: Science Institute, Lee@uni.edu, UCLA

☒ Remember this choice [Learn More](#)

Brighton and Sussex Medical School

University of Brighton
brighton.ac.uk

Brighton Hove & Sussex 6th Form ...

How its used and how it works

- The components
 - Discovery page
 - Metadata query
 - Filtering capability

https://demo.beta.seamlessaccess.org/shibboleth	strict-assurancecertification, nonstrict-mdsource, strict-mdsource, nonstrict-mdsource-entitycategorysupport, strict-idpselection, nonstrict-mdsource-entitycategory-
https://sp-proxy.cern.ch/saml2sp/saml2_backend.xml	sirtfi
https://tufts.campus.auth.edublogs.org/shibboleth	incommon-wayfinder
https://intembeko.orcid.ac.za/saml	safire-only

How its used and how it works

- The components
 - Discovery page
 - Metadata query
 - Filtering capability

https://sp-proxy.cern.ch/saml2sp/saml2_backend.xml	sirtfi
---	--------

Examples: Science Institute, Lee@uni.edu, UCLA

☒ Remember this choice [Learn More](#)

not filtered

3010 Matches keep typing to refine your search

[Show me all matches anyway](#)

Find Your Institution

Your university, organization or company

Examples: Science Institute, Lee@uni.edu, UCLA

☒ Remember this choice [Learn More](#)

filtered sirtfi

625 Matches keep typing to refine your search

[Show me all matches anyway](#)

How its used and how it works

- The components
 - Discovery page
 - Metadata query
 - Aggregate
 - eduGain
 - Open Athens
 - + NRENs

Find Your Institution

Your university, organization or company



Examples: Science Institute, Lee@uni.edu, UCLA

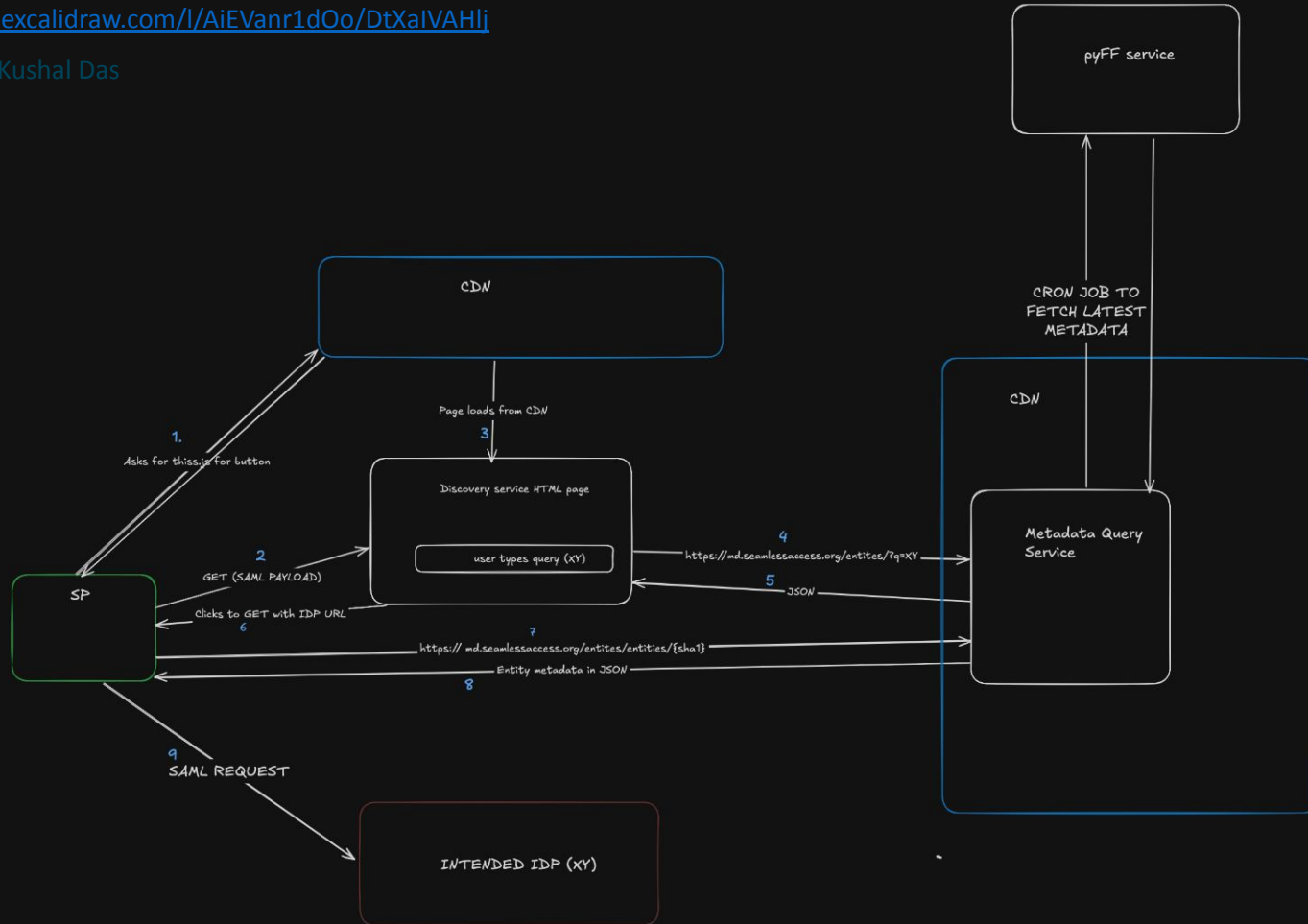
☒ Remember this choice [Learn More](#)

3010 Matches keep typing to refine your search

[Show me all matches anyway](#)

<https://app.excalidraw.com/l/AiEVanr1dOo/DtXaIVAHli>

courtesy of Kushal Das



Why OpenID Federation (and why SeamlessAccess)

- Supporting the community
 - Years of UX work
- Ready for the technology shift

- Create proof-of-concept solution for SeamlessAccess
- Engage with other OpenID Federation efforts, ie. eduGAIN PoC, national OI DFed
- Move forward the Entity Collection specification work
- Prepare the discovery elements for the community

Thank you

Any questions?

