

InAcademia.org Simple affiliation validation for Academia

Niels van Dijk, SURFnet bv

eduGAIN Townhall Meeting, Wein December 2, 2014

a Simple validation Service



- Many Services provide benefits or discounts for members of Academia (Student/Staff/Faculty)
- A federated (SAML) login with the eduPersonAffiliation attribute can be used to validate membership of the academic community, but:
 - Joining a federation is a problem (policies and contracts)
 - Implementing SAML and doing federation is not easy
 - Interfederation is even harder
 - Upfront cost, but no customers
- A lot of work, while the service *only* needs the Affiliation, which is pretty low risk in the data protection spectrum

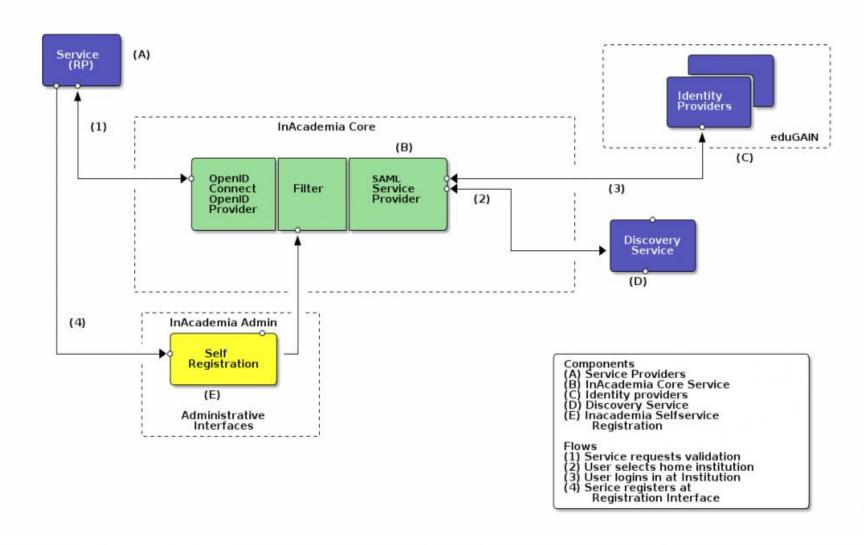
Use cases for Affiliation validation



- Discount at web shops
- 1 Time discount at Telco (Geant3+ SA7 mobile procurement)
- 'Free' access to generic cloud service, e.g. Microsoft (DreamSpark, ItAcademey, Office365), Apple, Adobe, Cisco, etc
- Digital reservations for Theatres and Sports accommodations on Student Campuses
- Validate Academic affiliation on relevant 'Social' platforms like e.g. ORCID, Mendeley, ReseachGate, LinkedIn, etc.

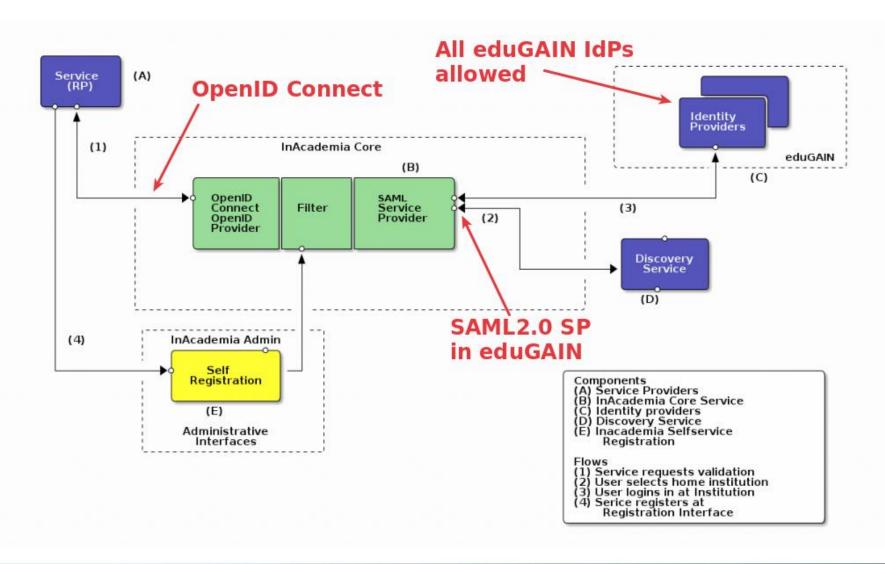
Simplified overview





Simplified overview -2





Benefits



- For Identity Providers
 - SAML based, connected via eduGAIN
 - Two profiles that have minimal, 'low risk' attribute requirements
 - No personal data stored at central service
 - One connection with many Services that are high value to users, but low effort for IdP
- For Services
 - OpenID Connect interface towards Service, no SAML required
 - No need to deal with (inter) federation
 - Simplified Policy, compatible with eduGAIN CoCo
 - Little upfront cost, only pay when a transaction is made
 - One connection with many trusted Identity Providers

Timeline



- Public Beta available in Jan 2015
 - Technically available
 - Hosted by SURFnet & SUNET/NORDUnet
 - Start of pilots
- ➤ By March 2015
 - Legal & Policy validated
 - Bugfixes and pilot feedback done
- ➤ GEANT4 (year 1)
 - Work out operational model
 - Setup transaction fee & billing
 - Move towards fully operation service

Thank you!



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InAcademia.org

Simple affiliation validation for Academia Bonus Slides

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Considerations



- Can this be simplified?
 - Service gets attributes directly from user (self asserted or social)
 - Service queries a single, centralised service, the "InAcademia Simple validation Service" (SvS) to confirm affiliation
 - A simple, well understood, protocol can be used to query SvS
 - The policy barrier for using SvS is low
 - The user 'proves' his/her affiliation at SvS which is under control of the federations / NRENs
 - SvS is connected to eduGAIN
 - > Authentication at home IdP delivers requested affiliation
 - SvS interprets the affiliation and answers the Service, but SvS never directly delivers attribute values to the requesting Service
 - User gets discount
 - Service pays a small transaction fee

Project and Team



- Geant3+ JRA3-T1 project
- > Team
 - Devs: Daniel, Rebecka, Roland (Umeå University)
 - Infra: Leif (SUNET), Niels (SURFnet),
 - Legal: Mikael (CSC), Evelijn (SURFnet)
 - Documentation: Remco, Niels (SURFnet)
 - Project: Niels
 - with additional support from Geant3+ SA*
- Started Sept 1, 2014 ends March 2015
- Proposed to continue in Geant4 SA5

Design Characteristics



- One service, but nodes are geographically distributed (preferably globally). 4 nodes (2x NL, 2x SE) by March 2015
- Transactions are handle in the same zone whenever possible. (If Service is in the same zone as the IdP, userdata remains in that same zone)
- Two Attribute profiles (persistent & transient) with low attribute requirements
- Stateless: not storing of personal data at any time
- Log data live on local nodes and are kept in accordance with local law
- Invitation based Self-service registration for RPs
- All eduGAIN IdPs are allowed by default

OpenID Connect Supported RP claims



Claims	Description
Affiliation Claims	Based on [1], [2]
student	A student at the institution
faculty+staff	Institutional workers whose primary role is teaching or research and workers other than teachers or researchers
affiliated	This person is affiliated to the institution (Student, Faculty or Staff)
alum	An alumus at the institution
Identifier Claims	(not the SAML persistent ID)
persistent	A persistent identifier, unique for this person, on a per RP, per IdP basis
transient	A transient identifier, which is unique for each transaction

^[1] http://www.geant.net/service/eduGAIN/resources/Documents/GN3-11-012%20eduGAIN_attribute_profile-05%2012%202013.pdf

^[2] http://www.terena.org/activities/refeds/docs/ePSAcomparison_0_13.pdf

OpenID Connect Supported claims -2



Claims	
Other Claims	
country	What is the country of the users home institution?
domain	What is the domain name of the institution of the user?

Examples:

scope=affiliated

scope=affiliated persistent

scope=affiliated persistent country

scope=student persistent country

scope=student persistent country domain

SAML SP Attribute requirements None persistence profile



Attribute	Description	Status
transient SAML nameID	We request a transient NameID None transient NameIDs will be ignored	Required
eduPersonAffiliation urn:oid:1.3.6.1.4.1.5923.1.1.1.1	The home institution affiliation. Supported values: Student, Staff, Employee, Faculty, Alum Other affiliations are ignored	Required
schacHomeOrganization urn:oid:1.3.6.1.4.1.25178.1.2.9	RFC-1035 domain	Optional

SAML SP Attribute requirements Persistent profile



Attribute	Description	Status
persistent SAML NameID	We prefer a persistent NameID	Optional*
eduPersonTargetedID urn:oid:1.3.6.1.4.1.5923.1.1.1.10	An eduPersonTargetedID may be used if a persistent NameID is not available	Optional*
eduPersonPrincipleName urn:oid:1.3.6.1.4.1.5923.1.1.1.6	An eduPersonPrincipleName may be used if all fails	Optional*
eduPersonAffiliation urn:oid:1.3.6.1.4.1.5923.1.1.1.1	The home institution affiliation Supported values: Student, Staff, Employee, Faculty, Alum Other affiliations are ignored	Required
schacHomeOrganization urn:oid:1.3.6.1.4.1.25178.1.2.9	RFC-1035 domain	Optional

^{*} Although optional, one of these *must* be provided.

Technical Setup



