LS AAI

2 Feb 2018

Background

- Develop a customized AAI that meets LS community requirements:
    - Uniquely authenticate users and assign them an unique ID (LifeScienceID)
    - Support management of accounts and attributes
    - Enable users to access both LS services as well as generic services
    - Support federated access to different type of services (SAML, OIDC, X.509)

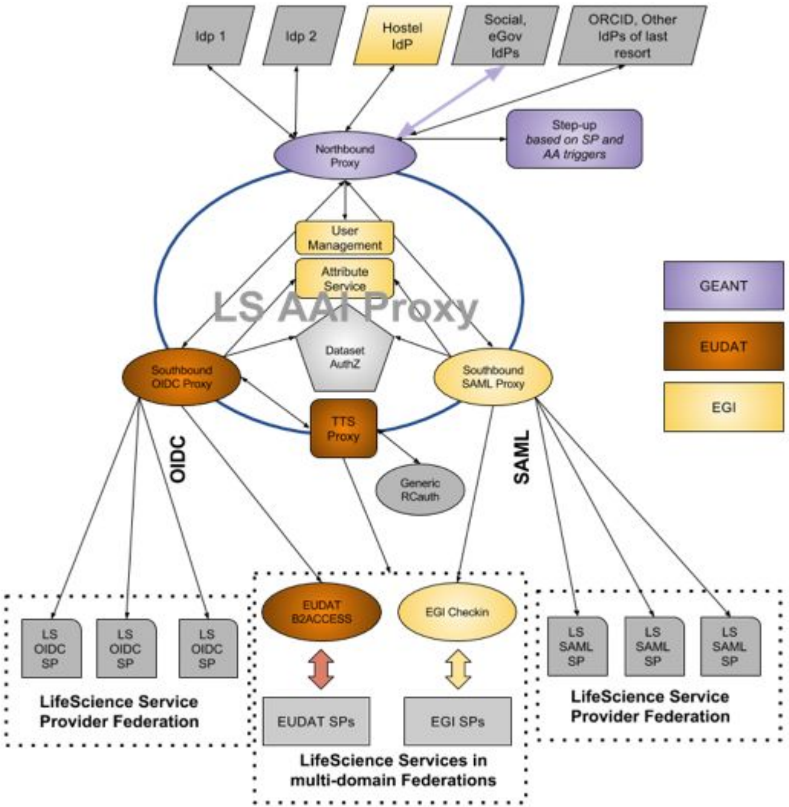
- Entrust the operation of this AAI in the hands of e-infrastructure

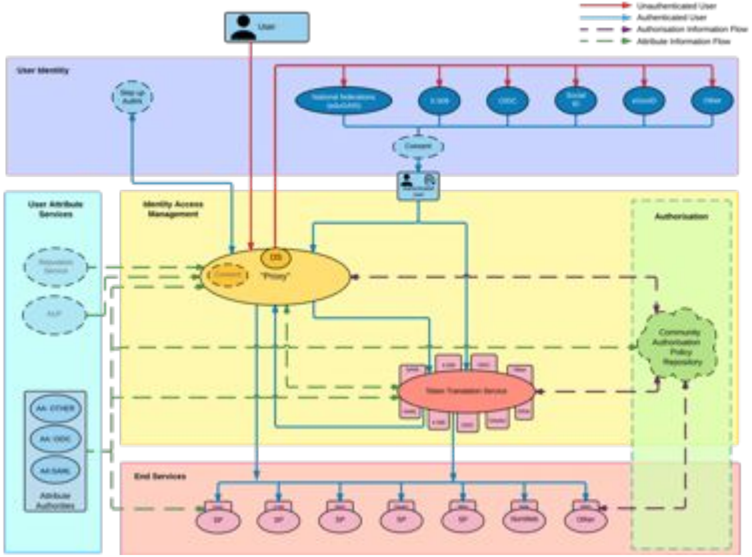
- A pilot started end of Nov 2017 to implement the AAI in the EUDAT, EGI and GÉANT proposal. Three phases are foreseen:
    - **Phase 1: end Nov 2017 - end of Jan 2018**
    - Phase 2: 1 Feb 2018 - end of May 2018
    - Phase 3: will be delivered later

Key aspects

- Implements AARC Blueprint Architecture, in a multi-domain scenario
- AAI components operated by 3 different e-infrastructures
- Supports for multiple protocols
- Collaboration across infrastructures to offer a joint service
- The work is carried out in the context of the AARC project

A view behind the scenes: Architecture





A view behind the scenes: Architecture

Pilot Infra

“Production” infra

Phase 1 includes

- User, Group & Attribute Management via Perun
    - LifeScienceID
- LS AAI Proxy
    - IdP facing Proxy (eduTEAMS IdHub Proxy)
    - Service facing SAML Proxy (CheckIn)
    - Service facing OIDC Proxy (B2ACCESS)
- Token translation service (Watts)
- Connect 3 service providers
    - Virtual Coffee Room (SAML)
    - EuroBioImaging Web access (SAML)
    - Perun (SAML)
    - Watts (OIDC)

Phase 2 includes (Prioritised according to the latest input from LS)

High Priority

- 3.5. Account linking for Life Science service IDs
- 4.2 User Research Infrastructure Attribute
- 4.4 Groups
- 5.3 User Synchronisation
- 5.4 Provisioning
- 5.1 Federated Login and attribute release
- 6 Logging, Statistics and Data retention

Low Priority

- 4.3 Researchers qualifications
- 4.6 Other attributes
- 4.7 active role selection

Comments ? Questions ?

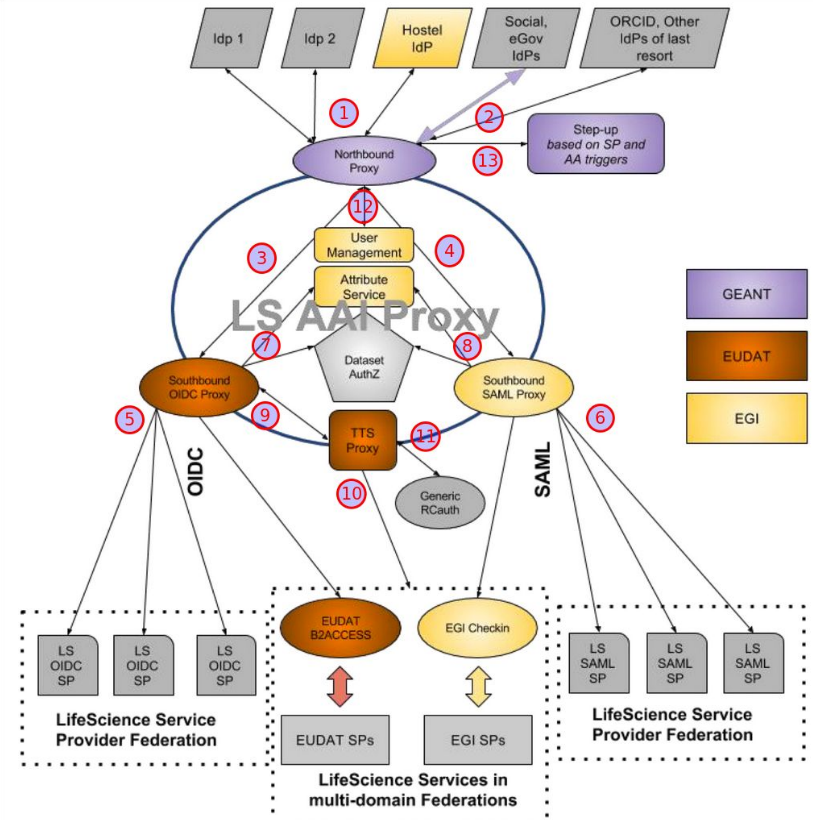
- Did I miss something ?

Today's Demo

Will focus on showing:

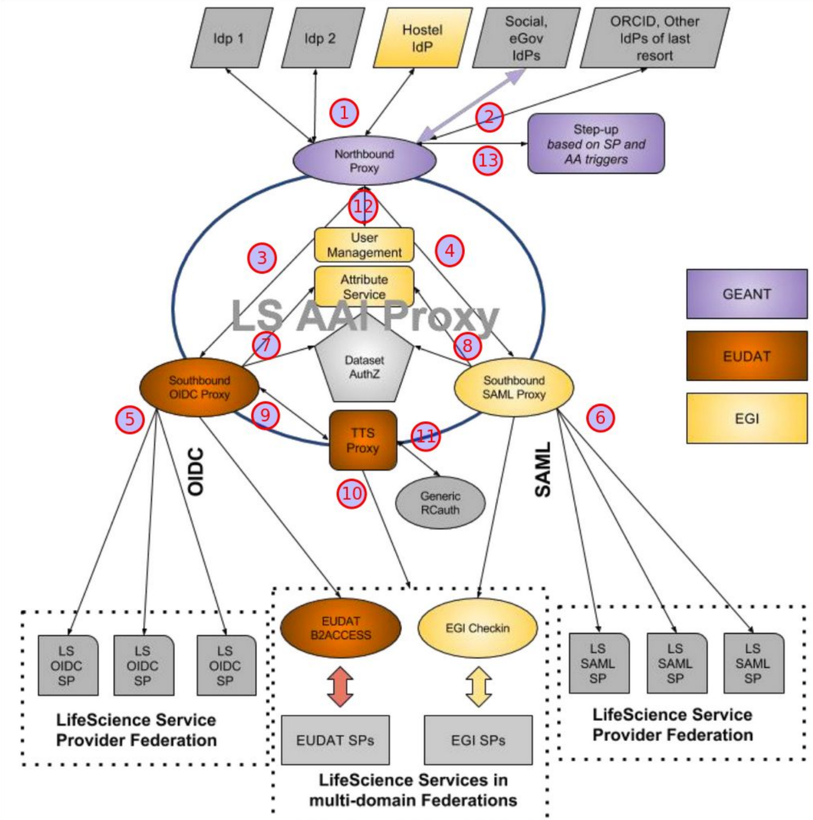
- How the architecture has been bootstrapped
- How a Life Science user can access services that are operated by different infrastructure in a federated fashion

Connection to the IdPS



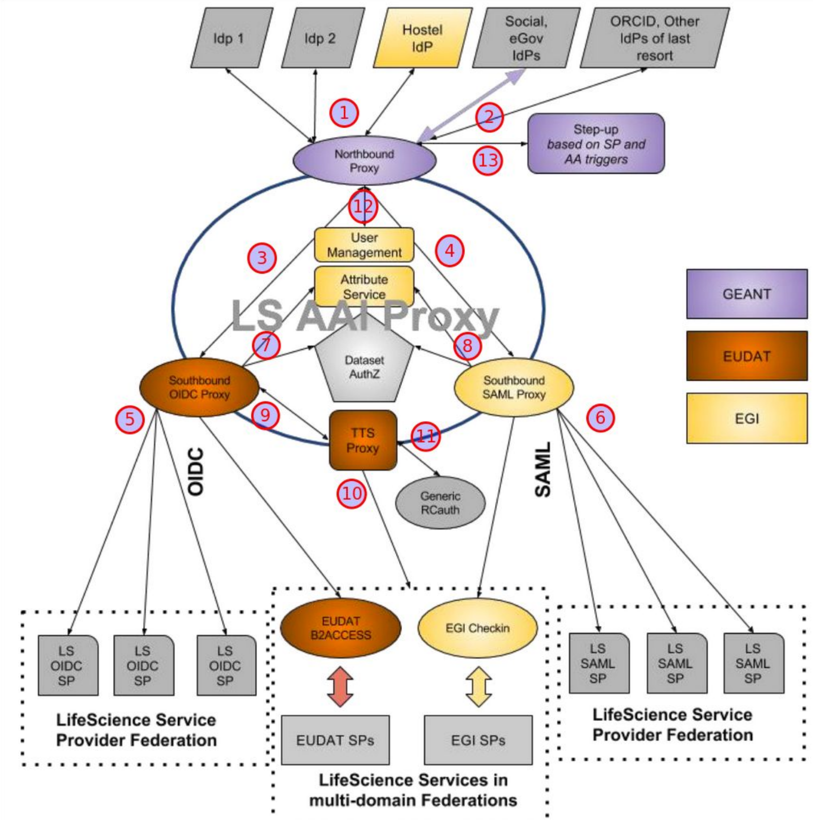
Protocol	Remarks
SAML2	Presents a SAML2 SP, conformant with eduGAIN, SAML2INT, R&S Required attributes: ● R&S bundle (https://refeds.org/category/research-and-scholarship) ● eduPersonScopedAffiliation (optional) ● eduPersonORCID (optional) ● or ● eduPersonTargetedID (required) ● givenName (required) ● sn (required) ● email (required) ● cn (optional) ● displayname (optional) ● eduPersonScopedAffiliation (optional) ● eduPersonORCID (optional)

Connection to the IdPs (2)



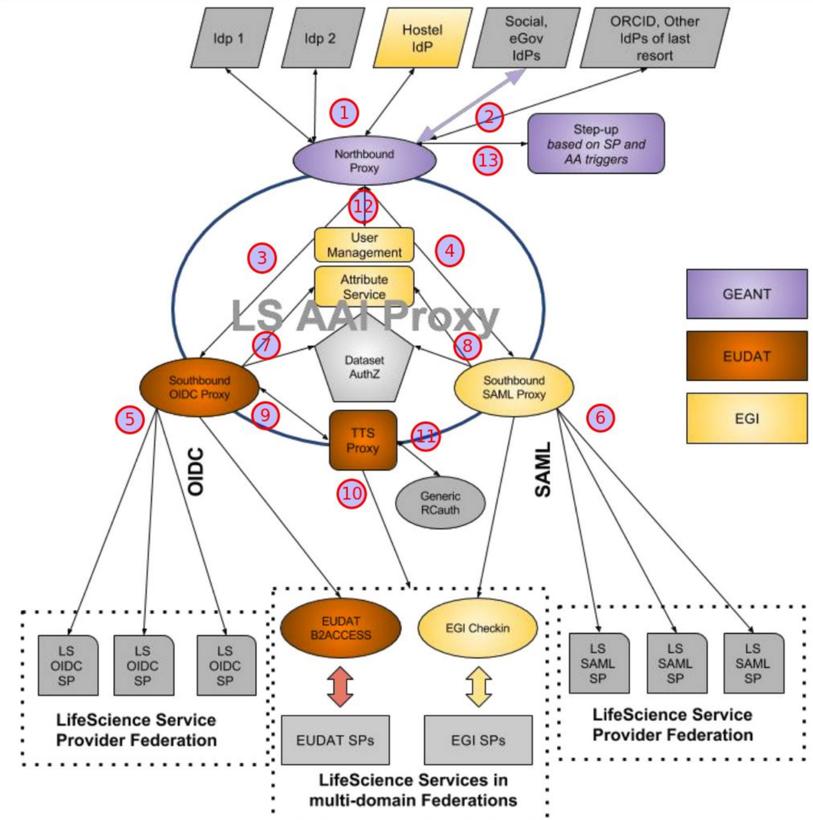
Protocol	Remarks
OIDC, OAuth2	Presents an OIDC, Oauth2 endpoint for external authentication providers This interface connects to specific authentication through OIDC or proprietary interfaces. In the pilot the following authentication providers are included: ● Github (p1) ● Linkedin (p1) ● Google (p2) ● Facebook (p2) ● ORCID (p2)

Internal Proxy Connections



Protocol	Remarks
SAML2	Identifier: ● schacPersonalUniqueCode

Internal Proxy Connections: Perun



Protocol	Remarks
SAML2	Identifier: • schacPersonalUniqueCode Attributes: • eduPersonTargetedID (if provided) • eduPersonPrincipleName (if provided) • givenName • sn • email • displayname • eduPersonScopedAffiliation (optional) • eduPersonORCID (optional)