EOSC AAI Implementation

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EUROPEAN OPEN SCIENCE CLOUD

EOSC Future

Implementing the EOSC AAI

The EOSC Future project is co-funded by the
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Relation with the EOSC-A AAI Task Force

EOSC Future

- **focus on the implementation aspects** of the EOSC AAI based on the HLR and the EOSC Authentication and Authorization Infrastructure (AAI) report published back in January by the AAI Task Force of the EOSC Executive Board Architecture WG.

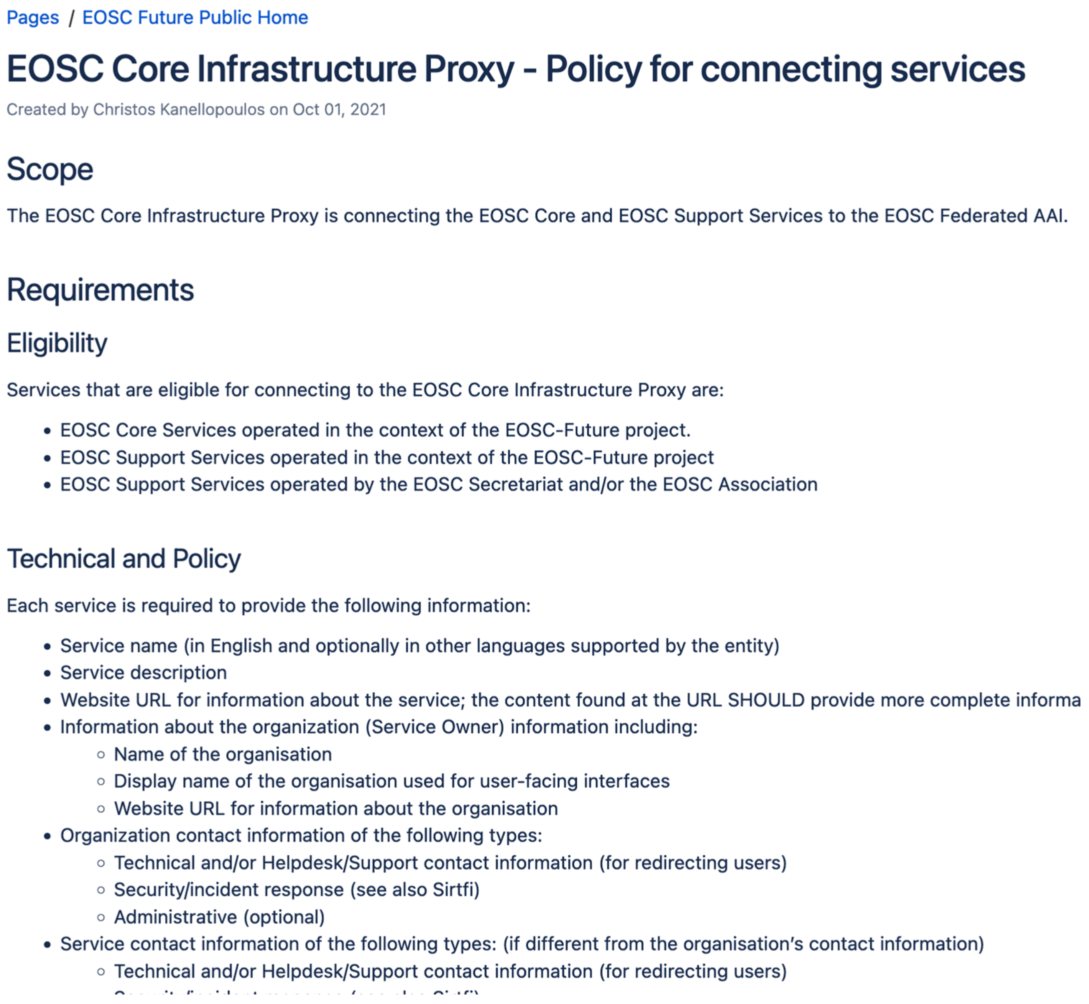
EOSC-A AAI TF

- **focus on the requirements and the further evolution** of the EOSC AAI.

Two parallel areas of work

- **Area 1** will be about the EOSC Core and its requirements from the EOSC AAI (**the micro level**).
- **Area 2** will be about implementing the EOSC AAI at the **macro level**, and we will be working on the cross-infrastructure/domain aspects.

Area 1: EOSC Core



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EOSC Core Infrastructure Proxy - Policy for connecting services

Created by Christos Kanellopoulos on Oct 01, 2021

Scope

The EOSC Core Infrastructure Proxy is connecting the EOSC Core and EOSC Support Services to the EOSC Federated AAI.

Requirements

Eligibility

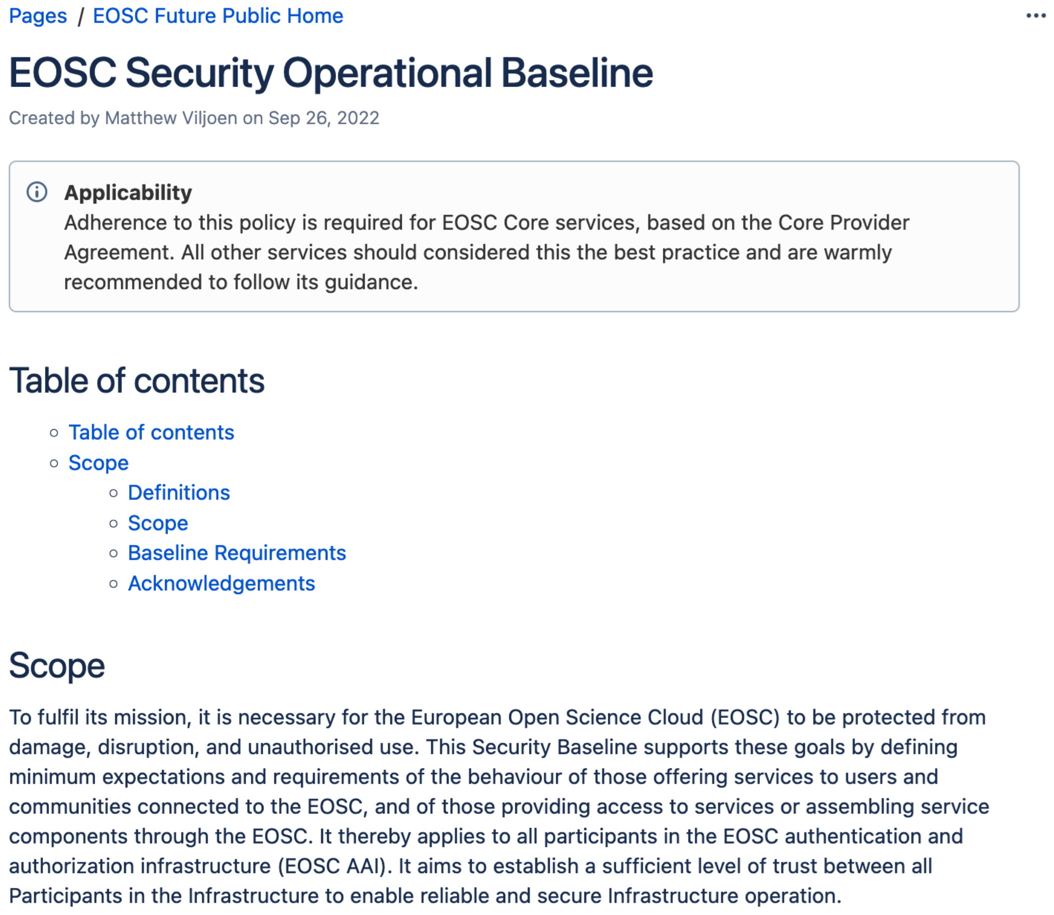
Services that are eligible for connecting to the EOSC Core Infrastructure Proxy are:

- EOSC Core Services operated in the context of the EOSC-Future project.
- EOSC Support Services operated in the context of the EOSC-Future project
- EOSC Support Services operated by the EOSC Secretariat and/or the EOSC Association

Technical and Policy

Each service is required to provide the following information:

- Service name (in English and optionally in other languages supported by the entity)
- Service description
- Website URL for information about the service; the content found at the URL SHOULD provide more complete informa
- Information about the organization (Service Owner) information including:
  - Name of the organisation
  - Display name of the organisation used for user-facing interfaces
  - Website URL for information about the organisation
- Organization contact information of the following types:
  - Technical and/or Helpdesk/Support contact information (for redirecting users)
  - Security/incident response (see also Sirtfi)
  - Administrative (optional)
- Service contact information of the following types: (if different from the organisation's contact information)
  - Technical and/or Helpdesk/Support contact information (for redirecting users)
  - Security/incident response (see also Sirtfi)



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EOSC Security Operational Baseline

Created by Matthew Viljoen on Sep 26, 2022

Applicability
Adherence to this policy is required for EOSC Core services, based on the Core Provider Agreement. All other services should considered this the best practice and are warmly recommended to follow its guidance.

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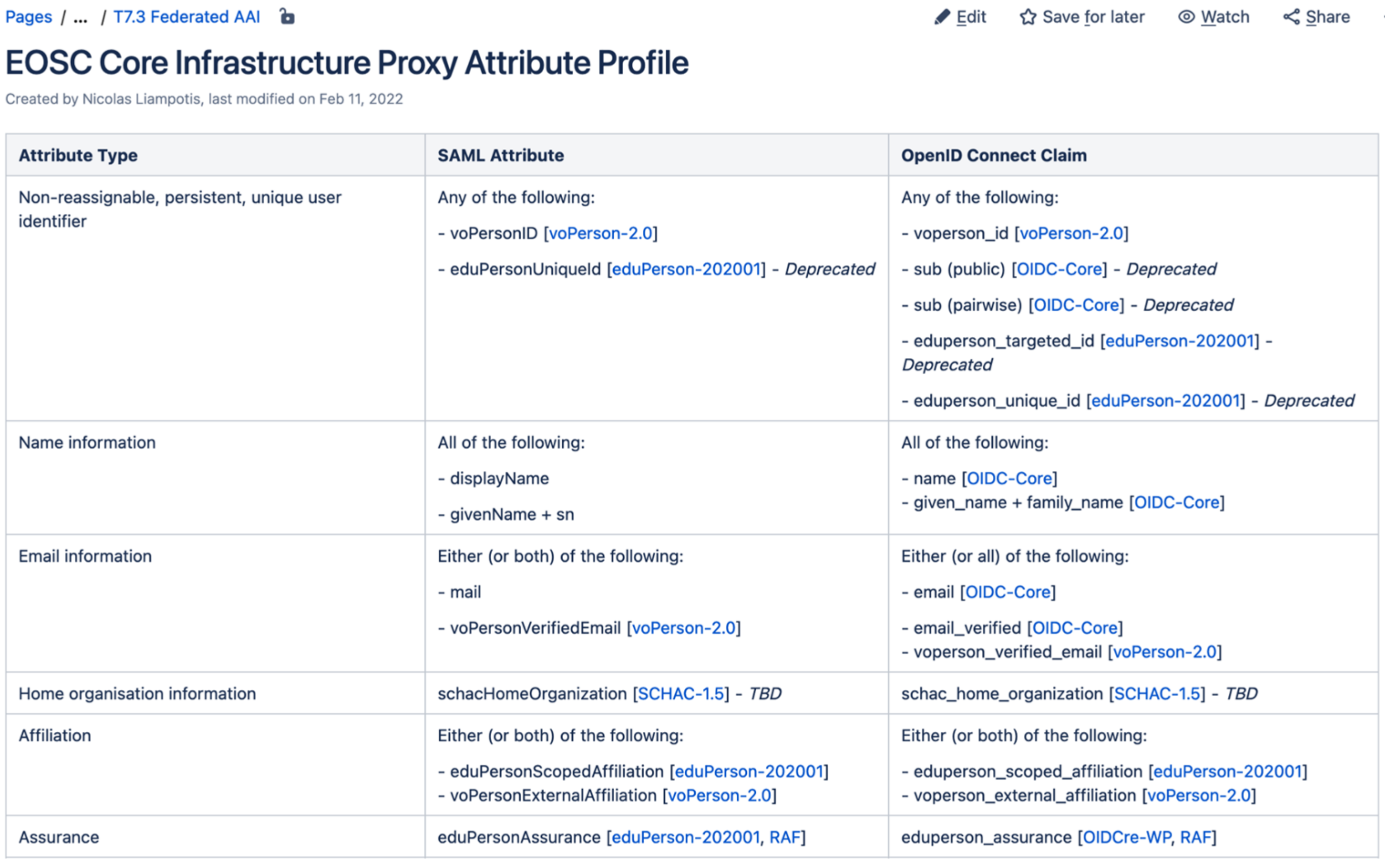
Scope

To fulfil its mission, it is necessary for the European Open Science Cloud (EOSC) to be protected from damage, disruption, and unauthorised use. This Security Baseline supports these goals by defining minimum expectations and requirements of the behaviour of those offering services to users and communities connected to the EOSC, and of those providing access to services or assembling service components through the EOSC. It thereby applies to all participants in the EOSC authentication and authorization infrastructure (EOSC AAI). It aims to establish a sufficient level of trust between all Participants in the Infrastructure to enable reliable and secure Infrastructure operation.

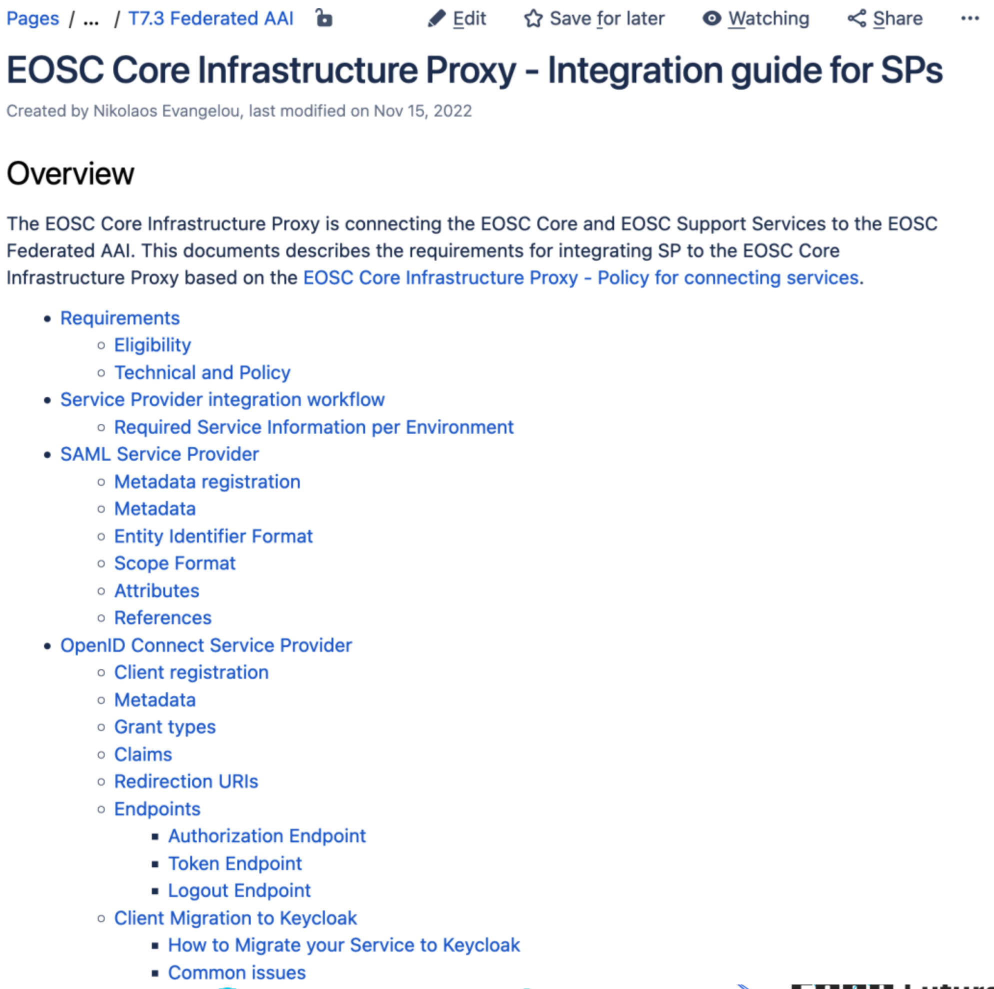
Area 1: EOSC Core



EOSC Core Infrastructure Proxy Attribute Profile

Created by Nicolas Liampotis, last modified on Feb 11, 2022

Attribute Type	SAML Attribute	OpenID Connect Claim
Non-reassignable, persistent, unique user identifier	Any of the following: - voPersonID [voPerson-2.0] - eduPersonUniqueId [eduPerson-202001] - *Deprecated*	Any of the following: - voperson_id [voPerson-2.0] - sub (public) [OIDC-Core] - *Deprecated* - sub (pairwise) [OIDC-Core] - *Deprecated* - eduperson_targeted_id [eduPerson-202001] - *Deprecated* - eduperson_unique_id [eduPerson-202001] - *Deprecated*
Name information	All of the following: - displayName - givenName + sn	All of the following: - name [OIDC-Core] - given_name + family_name [OIDC-Core]
Email information	Either (or both) of the following: - mail - voPersonVerifiedEmail [voPerson-2.0]	Either (or all) of the following: - email [OIDC-Core] - email_verified [OIDC-Core] - voperson_verified_email [voPerson-2.0]
Home organisation information	schacHomeOrganization [SCHAC-1.5] - *TBD*	schac_home_organization [SCHAC-1.5] - *TBD*
Affiliation	Either (or both) of the following: - eduPersonScopedAffiliation [eduPerson-202001] - voPersonExternalAffiliation [voPerson-2.0]	Either (or both) of the following: - eduperson_scoped_affiliation [eduPerson-202001] - voperson_external_affiliation [voPerson-2.0]
Assurance	eduPersonAssurance [eduPerson-202001, RAF]	eduperson_assurance [OIDCre-WP, RAF]



EOSC Core Infrastructure Proxy - Integration guide for SPs

Created by Nikolaos Evangelou, last modified on Nov 15, 2022

Overview

The EOSC Core Infrastructure Proxy is connecting the EOSC Core and EOSC Support Services to the EOSC Federated AAI. This documents describes the requirements for integrating SP to the EOSC Core Infrastructure Proxy based on the EOSC Core Infrastructure Proxy - Policy for connecting services.

Area 2: The EOSC AAI Federation

- Benchmark the AAI readiness of the Science Clusters and the e-Infrastructures against the policy and technical requirements [*]
- Use cases and requirements from the Science Projects
- Update of the technical and policy requirements based on the input from the Science Projects - Contribute to the EOSC Interoperability Framework
- Plan for each Science Clusters and e-Infrastructure to be ready for joining the EOSC AAI Federation
- First implementation of the EOSC AAI Federation and initial Community AAIs / Infrastructure Proxies connected

AAI Readiness of Science Cluster and Research e-Infrastructures

Goal

- Engage with the key parties
- Make sure the EOSC AAI is adopted
  - Implementation is ongoing process
- Provide consultancy
- Help overcoming obstacles
- Gather feedback and inputs for EOSC AAI evolution

Who we are focusing on?

- European e-infrastructures
- EOSC Science Clusters
  - ENVRI-FAIR, ESCAPE, Lifesciences, PaNOSC/ExPaNDS, SSHOC
- EOSC Science Projects from INFRAEOSC07
  - 10 projects to drive the integration of research data and services across scientific domain
- Open to other communities, projects, etc.

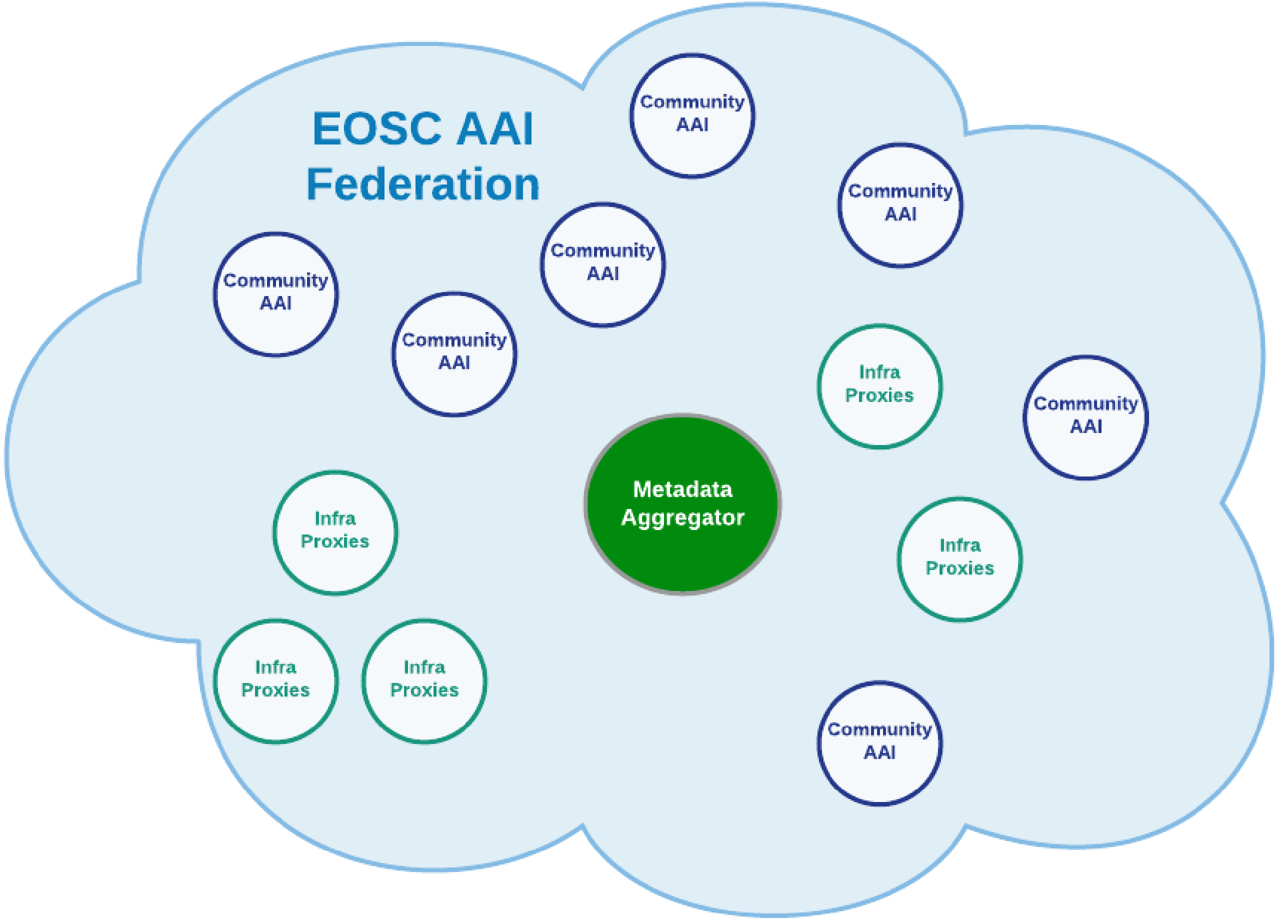
General status

- AAI is recognized as important
  - Interoperability
- Chicken-egg situation
  - Not really a problem
- European e-infrastructures and RIs are heavily engaged
- General agreement on standards
  - AARC standards endorsed by AEGIS (AARC engagement group for infrastructures)

Status in science clusters

- Single AAI available for most science clusters
  - Getting there for the rest
- All science cluster users have access to AAI
  - Not all users might be aware of AAI
- Based on AARC blueprint architecture
  - AARC interoperability guidelines
  - Progress of implementation varies

Area 2: The EOSC AAI Federation



- ESCAPE IAM (ESCAPE)
- Lifesciences AAI (EOSC-Life)
- UmbrellaID AAI (PaNOSC / ExPANDS)
- CESSDA AAI (SSHOC)
- EGI CheckIn
- EUDAT B2ACCESS
- GEANT SP Proxy
- GEANT eduTEAMS
- Infrastructure Proxy for EOSC Core Services

THANK YOU

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