DFN edu-ID (Update)

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The story so far

- Concept of SWITCH edu-ID also interesting for the German R&E community
- Since March 2019: open working group (research communities, universities, libraries, commercial service providers, DFN-CERT, SWITCH)
- Use case-driven development of DFN edu-ID concept
  - Requirements regarding attributes, assurance, technical aspects
- Working Group published a [technical concept](https://doku.tid.dfn.de/de:aai:eduid:start) and a [whitepaper](https://doku.tid.dfn.de/de:aai:eduid:start) in 2022
- Based on the technical concept, a proof of concept implementation was developed at DFN-CERT

[https://doku.tid.dfn.de/de:aai:eduid:start](https://doku.tid.dfn.de/de:aai:eduid:start)
Basic features and requirements

- Lifelong, user-centric identity
- Uninterrupted access to services/credentials/resources
- Portability of user data, account linking (attributes, identifiers like ORCID)
- Better support for VO Management of research projects and infrastructures (user mobility, rights, roles, group memberships)
- IdP for Guest Users / Citizen Scientists
- edu-ID System as a proxy
  - Home IdPs as authentication source, their attributes are passed through
  - Only the core attributes provided by the users are stored
edu-ID System as Proxy

For ‘homeless’ users, the edu-ID IdP is the only authentication source.

* derived from edu-ID

Identifier*
Attributes
(edu-ID Proxy)

‘personal’ attributes
linked IDs
edu-ID

attributes
local SPs

User
Authentication

Choose Home Organization
Attribute Release

Service XYZ

SAML2 | OIDC
Current status

- First library use cases with Staatsbibliothek zu Berlin
  - Validation of technical concept
  - User Experience, test persons from target groups
  - Develop FAQs + documentation for the different user groups

- TODO:
  - Identity vetting based on eIDAS-compliant eGov IDs --> German bundID
    - High LoAs for ‘homeless’ users, support for onboarding scenarios (reliable identities)
  - Policies, contracts
  - Data protection legal opinion
  - Planning the Pilot Phase

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Cooperations

- Due to its proxy-based architecture, the DFN edu-ID System can also be used as a bridging element to other trust frameworks

  - German school/K-12 federation [VIDIS](#) (under development):
    Enable student teachers from DFN-AAI to access certain e-learning platforms

  - Digital Education Networking Infrastructure (a.k.a. National Education Platform), [https://bildungsraum.de](https://bildungsraum.de), developed by the Federal Ministry of Education and Research:
    Support for university education and life-long learning use cases
NFDI-AAI

NFDI: National Research Data Infrastructure

- Central IdP for Homeless/Guest users
- Permanent, unchangeable digital identity via subject-id derived from edu-ID
- Account linking, switchboard for identifies from Home Organisations and/or ORCID
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