deutsches forschungsnetz
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
- Gathering use cases → requirements regarding:
  - Core attributes
  - Levels of Assurance
  - Technical Architecture
- Three multi-day workshops (pre-CV19), 14 online meetings
Current status (1)

- **Use Cases** from four areas:
  - Student Lifecycle (6)
  - University Teaching (5)
  - Research (10)
  - University Administration (4)

- Basic features & requirements:
  - Lifelong, user-centric identity, identity vetting based on eIDAS-compliant eGov IDs
  - Support for onboarding scenarios (reliable identities!)
  - Uninterrupted access to services/credentials/resources
  - Portability of user data, account linking (attributes, identifiers like ORCID)
  - IdP for Homeless Users, facilitation of VO management
Current status (2)

- **Done:**
  - Core attributes
  - Technical architecture (proxy-based)
  - Levels of assurance (almost...)
  - Decision: let’s start with research-related use cases

- **TODO:**
  - POC implementation (IdM system, SP/IdP proxy, portal, eID/eIDAS server)
  - Operational concept (security, costs, support, ...)
  - Policies, contracts
  - Data protection legal opinion, DPIA(?)
  - ...
Digital identities in Germany

- bund:ID
- ÖZG (Onlinezugangsrechtsgesetz)
- Serviceportal NRW
- iDunion
- SSI
- VIDIS

Public administration
Economy
Schools
Thanks! Questions? Comments?

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Backup Slides
One lifelong digital Identity...

IdP A
Identity A
Bachelor

IdP B
Identity B
Abroad
Master
PhD

AAI
Job

IdP C
Identity C
Postdoc

IdP D
Identity D
own company
Job

University A

University B

Research Center C

University D

edu-ID

Bachelor

Master

PhD

Job

Postdoc

Job
Considerations and Requirements

- Support the identified use cases
- Account linking, aggregation of attributes and identifiers (other identities)
- edu-ID must be stored in the IdM/User Directories of the Home Organizations
- Home IdP still required for so-called “local SPs” (DFN-AAI metadata registry enables management of campus-level federations), sometimes very specific configurations → no Hub-and-Spoke model (like SWITCH eduID)
- Seamless SSO User Experience for institutional users → ideally one authentication source
edu-ID System as Proxy

For homeless users, the edu-ID IdP is the only authentication source.
Registration and Onboarding

Please create an edu-ID

User

edu-ID Portal

edu-ID
IdM

Core Attributes

Post Ident
Video Ident

eID eIDAS

User

University A
Research Centre B
University C

IdP

SP

IdM

Video Ident
Post Ident

eID eIDAS

edu-ID Portal