

## The next-generation Swiss Educational Identity Management

### Consider future needs & expectations

Technological change increasingly impacts the behaviour and working environments of students, researchers, life-long learners and university staff. While in the past the individuals' working environment was mostly preset and specified by the organization they were affiliated with, we can now observe a trend towards more self-reliant personalities. They tend to choose their individual set of tools and they autonomously develop their skills to manage and protect personal data. In addition to the classical desktop working mode, ubiquitous mobile access to personal and professional data is preferred.

### Substantially extend AAI towards a user-centric IdM

To address these trends SWITCH is suggesting a substantial extension of the existing AAI infrastructure. Identity management, which controls access to tools and data is to become more user-centric and less organization-centric.

### Provide a long-living identity

From the perspective of an individual the digital identity is stabilized and sustained. With the first contact of an individual with a higher education institution the individual is assigned a permanent Swiss edu-ID. The barriers for an individual to create a Swiss edu-ID are low. After leaving a university, the Swiss edu-ID will no longer carry role information from that university, but otherwise remain active. The individual can still update personal information on an on-going basis, and will still get access to resources not requiring such role information. Re-entering a university for further education purposes as well as cross-organisational activities are simplified.

### Streamline institutional Identity Management

From the perspective of an organization, identity management is streamlined. New identities do not have to be constructed from scratch, but can be initialized based on existing profile information from an individual's Swiss edu-ID. While AAI is based on a widely decentralized architecture, the Swiss edu-ID is substantially relying on centrally provided services run by SWITCH to operate elements like storage of long-term core attributes, authentication service and interfaces to resources and attribute authorities. Providing high quality attribute information about individuals will remain in the authority of participating organisations, e.g. the universities, as is the case today in AAI.



### Embed new Identity Provider & support identity linking

The central platform of the Swiss edu-ID will become an Identity Provider in the AAI framework and thus maintain full interoperability including interfederation. The Swiss edu-ID will allow linking of relevant external identifiers like ORCID. Linking with social media identities will further improve interoperability with popular 3rd party communication and collaboration services.

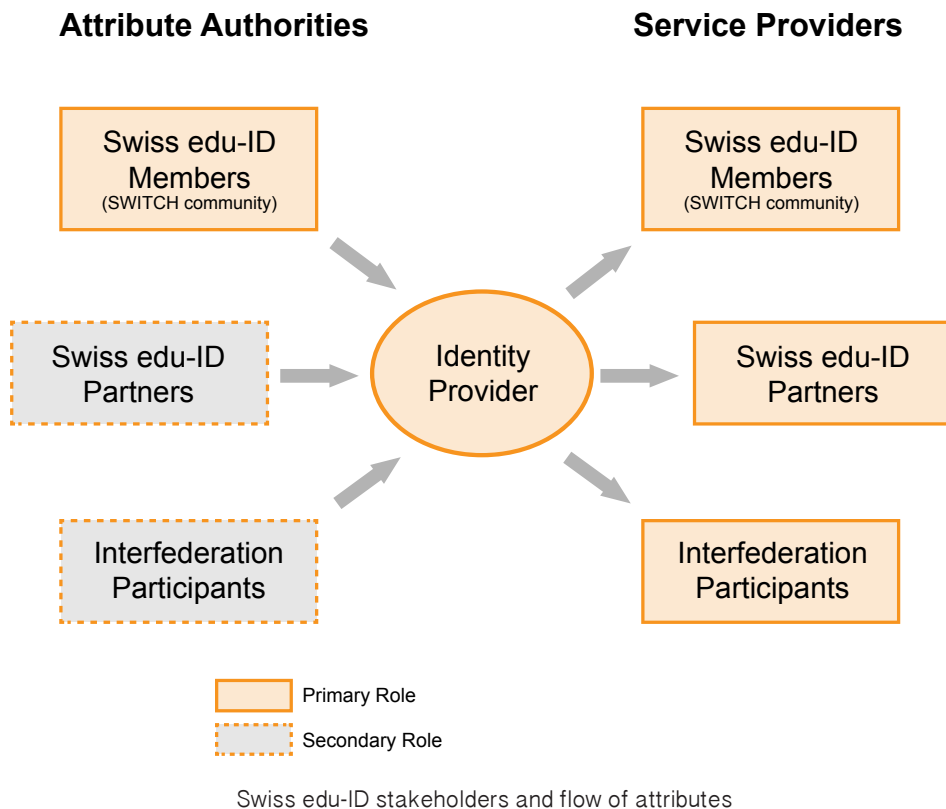
The Swiss edu-ID will actively seek interoperability with relevant e-Government standards and services nationally, e.g. SuisselD, and internationally, e.g. eID/STORK.

	SWITCHaai	Swiss edu-ID
Identity Provider	Run by each university individually for their current users	One central instance run by SWITCH
Attribute Authority	Run by each university individually for their current users (as part of the IdP)	Run by each university individually for their current and former users
Service Providers	SWITCH Community, Swiss edu-ID partners, interfederation participants	SWITCH Community, Swiss edu-ID partners, interfederation participants

Swiss edu-ID compared to SWITCHaai

### Initial version functional in 2015

An initial version V1.0 of the Swiss edu-ID service with limited capabilities will be operable starting 2015. It will allow individuals to create a long-lived Swiss edu-ID identity. Focus is on students who are soon going to lose their existing SWITCHaai account and on individuals without a strong affiliation with an organisation in the SWITCH Community and therefore without possibility to get a SWITCHaai account.



### Assure high quality & extension possibilities

The Swiss edu-ID is built to match the requirements of the SWITCH Community. This means that high security and data protection standards are adopted to gain trust and acceptance. This also means that 3rd party organizations can participate in Swiss edu-ID provided that the SWITCH Community requires it. The proven governance and financing models of the SWITCH Community will be fully applied to Swiss edu-ID.

### Take the next steps

Stakeholder groups will refine the operational framework of the Swiss edu-ID on the basis of the high-level architecture from mid-2014 to mid-2015 and set the cornerstone of the next version 2.0 of the Swiss edu-ID and beyond. Version 2.0 will allow participating organisations to enrich the user attributes and thus make the Swiss edu-ID cover all functionality of SWITCHaai identities with additional longevity.

The main focus in the years 2017 onwards is to increase service adoption. This will also include implementing renewed student registration processes together with all relevant stakeholders.

The program P-2 covers two substantial activities of the “Swiss edu-ID” project, i.e. the set-up of the initial service version and the refinement of the operational framework in collaboration with the stakeholder groups. Follow-up projects (preferably within the scope of P-2) will be initiated to implement the subsequent steps in this roadmap.

### Call: Participate in working groups & pilots

Interested people are welcome to participate in one of the initiated working groups (please find details at [http://swit.ch/eduid\\_workgroups](http://swit.ch/eduid_workgroups)):

**Processes:** IdM related processes, issuing, interfaces

**Regulations:** existing regulations & policies, needs, user policies

**ORCID:** possible use, integration processes

**Mobile App Support:** requirements, improved support, evaluation

**Governance Model, Business Model**

The integration possibilities will be tested and demonstrated with some pilots. Test candidates should be **web and non-web applications** (e.g. based on OAuth2 or Open ID connect), **mobile applications**, **applications using ORCID**, **other IDs & ID frameworks** (e.g. community IDs, SuisseID, Mobile ID, STORK).

**Contact / News / Registration for working groups:** [swisseduid@switch.ch](mailto:swisseduid@switch.ch)

**Events:** Sept. 11 at UNIL and Sept. 25 2014 at UniBE: CUS P-2 Project Update

This flyer is mainly an extract of the “Swiss edu-ID High Level Architecture” document: <http://swit.ch/eduid/SwissEduIDArchitecture.pdf>