The Swiss edu-ID in a Nutshell

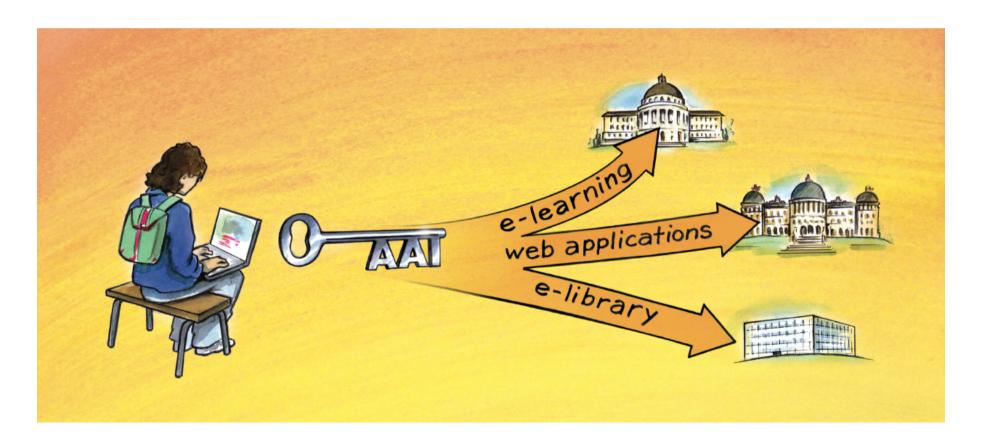




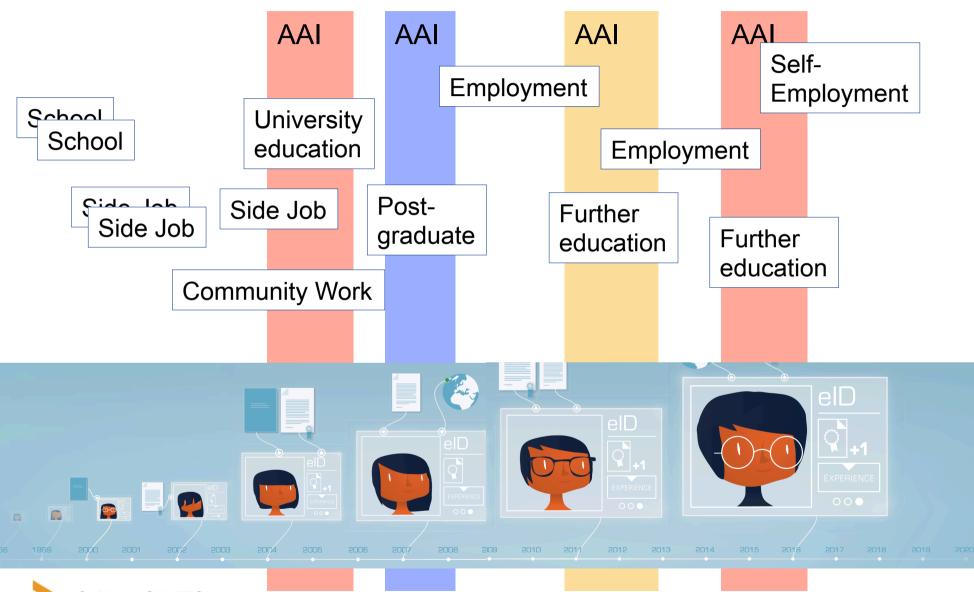
Swiss edu-ID swisseduid@switch.ch

The success of SWITCHaai

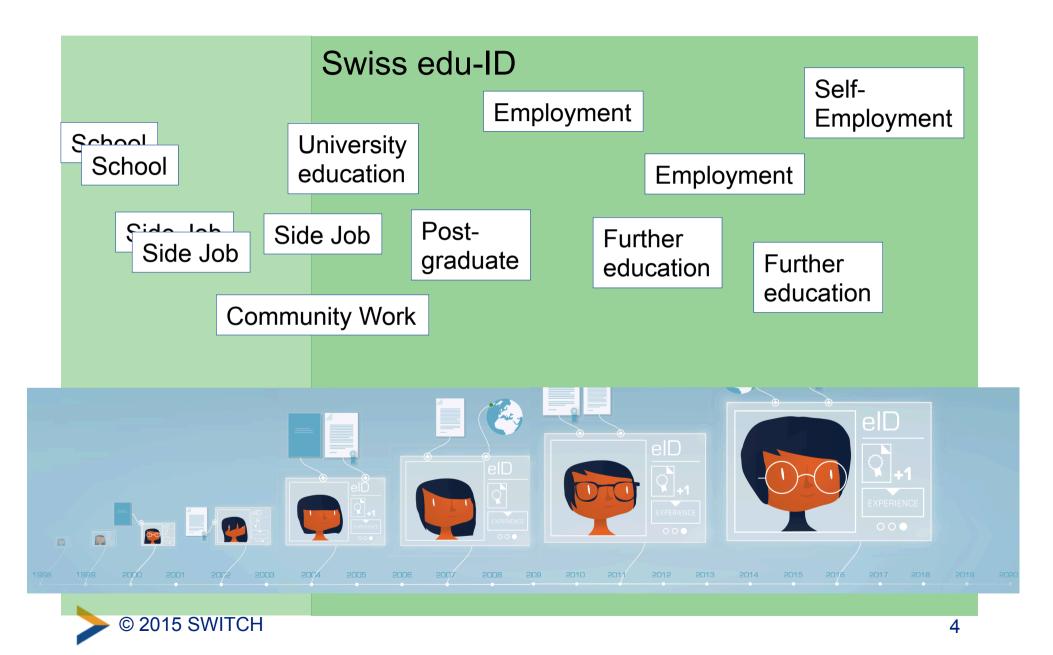
Enter higher education, get one key, access many resources



But what happens over time?



Doesn't this look much nicer?

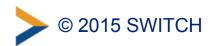


The (overloaded) term "Swiss edu-ID"

- The concept "Swiss edu-ID"
 - In preparation for the CUS P-2 programme a "substrategy identity management" was written by an inter-university working group.
 - This paper proposed the concept of the "Swiss edu-ID" and a highlevel roadmap for its implementation
- The project "Swiss edu-ID"
 - SWITCH initiated the CUS P-2 projects "Swiss edu-ID" and "Swiss edu-ID phase II" to implement the roadmap of the substrategy
- The service "Swiss edu-ID"
 - The services "Swiss edu-ID V1.0" and "Swiss edu-ID V2.0" are milestones on that roadmap

Swiss edu-ID concept corner stones

- Persistency:
 - Built to survive organisational affiliations
- User-centrism:
 - User issues his/her identity in a light-weight self-registration process
 - User brings his/her identity to the university/employer (if pre-existing)
 - User decides whether to pass on data (but usually not on its contents!)
- Organisational backing:
 - Organisations add or validate attributes of identities
- Openness:
 - Open to members of Swiss academia and people with relation to it
- Scalable quality:
 - Allow for low quality: Yes, this is a feature!
 - Foresee validation processes to increase the quality level
 - Offer quality transparency: relying parties can base decisions on quality level
- Support mobile environments and non-web use cases



SWITCHaai vs. Swiss edu-ID

	SWITCHaai	Swiss edu-ID	
Identity framework	Role-linked, organisation- centred federated identity	Persistent, user-centric federated identity	
Identity lifetime	Limited to period of organisational affiliation	Persistent identity	
Number of identities per individual	One identity for each organisational affiliation of an individual	One unique identity per individual	
Role of organisations	Identity provider & Service provider	Attribute authority & Service provider	
Users	Members of Swiss academia	Members of Swiss academia and people with relation to academic institutions	

The Swiss edu-ID project roadmap

- Project "Swiss edu-ID" (finished July '15)
 - Submitted by SWITCH to CUS P-2 competition in March '14, approved and started mid-2014
 - -Main goal: Implementing the "Swiss edu-ID V1.0" service
- Project "Swiss edu-ID phase II" (started Aug '15)
 - Submitted by SWITCH to CUS P-2 competition in Feb '15, approved in June '15 and started Aug '15, runtime until end 2016
 - -Main goal: Implementing the "Swiss edu-ID V2.0" service
- Swiss edu-ID 2017-2020
 - Envisaged follow-up collaboration project
 - Main goal: migrate from SWITCHaai to Swiss edu-ID



"Swiss edu-ID" project: main deliverables

- Pilot service Swiss edu-ID V1.0 -> Lukas Hämmerle
- Pilot projects/Use Cases -> Rolf Brugger
- Community Anchoring -> Petra Kauer-Ott
- Market overview: solution framework for Swiss edu-ID
 - -Shibboleth (main open source SW-component of SWITCHaai and Swiss edu-ID V1.0) and commercial products are fit for the purpose
 - Successfully tested one of the commercial products in a PoC
 - Main weakness of Shibboleth is its lack of a solid roadmap for supporting mobile and non-web use cases
 - We stay with Shibboleth for Swiss edu-ID V2.0
 - To be revisited once mobile and non-web use cases gain ground
- Support for mobile environment/non-web -> Rolf Brugger



Swiss edu-ID Version 1.0

What's there already? What is coming?







Lukas Hämmerle (lukas.haemmerle (lukas.h

Bern, 13. August 2015

Outline

Swiss edu-ID Identifier

- Swiss edu-ID Service
 - –What is there already?
 - –What is the edu-ID identity?
 - How changing identity?
 - -What will be added?

edu-ID Identifier

- Example: 6c17b073-3e37-4c4a-83c8-be85ee353d23
- Main goals: Link personal data over long time across services and institutional borders.
- Issuance: Swiss edu-ID service (currently)
- Format: UUID Version 4
- Usage: Note released (currently) to AAI services
- Test range: All values of format "0000[-a-f0-9]{32}"
- Specification: http://swit.ch/edu-ID-Identifier

No need to remember/enter your Swiss edu-ID!



edu-ID Service

Consists of:

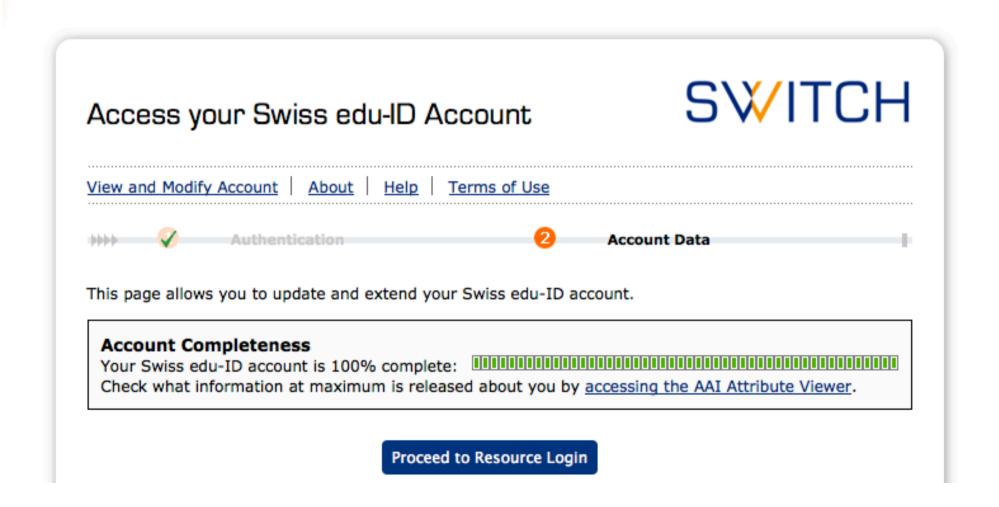
- Registration/(self-)management web interface
- Shibboleth Identity Provider
 Registered like any IdP in SWITCHaai

Allows you to:

- Create and manage your edu-ID account
 - -Change/add/link data
- Log in to AAI services

edu-ID Identity

How does it look like and what can you add/change/link?



Attribute Quality and History

Quality of each attribute is:

- Provided by user
- Provided by (linked) AAI identity
- iii Verified (currently e-Mail and mobile phone number)
- iiii Generated

All revisions (and timestamp) of identity are stored.

Changing Attributes

lew value			
Business Address Name	Lukas Hämmerle		
Company	SWITCH		
Additional Address Information			
Street and House Number	Werdstrasse 2		
ZIP and City	8004 Zürich		
Country	Switzerland ‡		
	Example		
	Beispiel AG Musterstrasse 4 CH-1234 Example Switzerland		
	A Changing this verified value lowers the overall quality of your Swiss edu-ID account. Therefore, this generally is not recommended.		
	Cancel Reset Save		



Verifying Identity Data

Verify Attribute Additional E-mail





Before your E-mail address is activated, it has to be verified first. Therefore, an E-mail message has been sent to kitty84@bluewin.ch. Please follow the instructions in the E-mail in order to confirm your E-mail address.

Due to SPAM filters it may take a few minutes until you receive the e-mail. If you do not receive the e-mail within 10 minutes, please also check your SPAM folder.

Swiss edu-ID Additional E-mail Verification			
Verification Code]
	Cancel	Verify	



edu-ID Identity Provider Attribute

Can release the following:

- all SWITCHaai Core attributes
- all attribute recommended by eduGAIN
- ORCID attribute
- edu-ID identifier attribute (but generally won't)

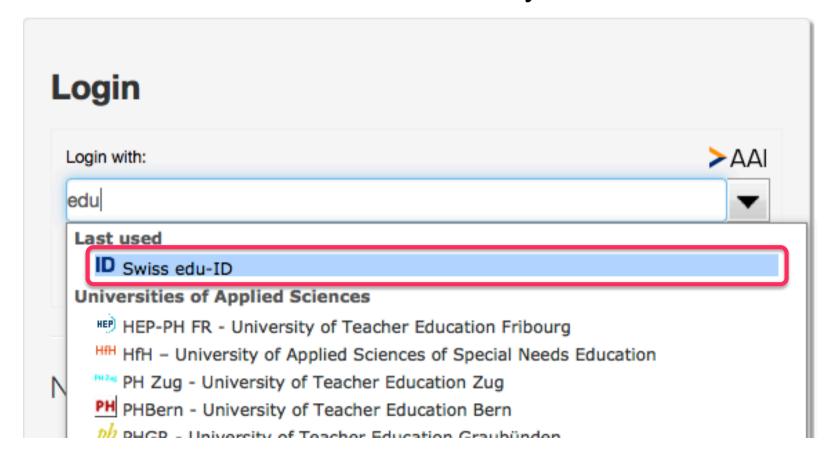
Supports standard SAML2 profiles used in AAI

Supports SAML2 ECP (Enhanced Client or Proxy Profile) Useful for some non-browser applications.



How to get your edu-ID

- Start at https://eduid.ch and click on "Create & Manage" or
- Select in the AAI WAYF/Discovery Service



Outlook I

- Release Additional edu-ID attributes
 Quality of identity data and/or attributes.
 Work on specification starting in Q3 2015.
- Postal address verification
 Is implemented when there is a use-case for it
- REST/JSON interface or simplified account view
 To check if an account with given email exists, let remote site create edu-ID account or provide a simplified form.
 Requested by FHNW/SUPSI for a use-case.

Outlook II

- OAuth2/OpenID Connect
 Is implemented when there is a use-case for it (edu-ID Mobile App project)
- Two-Factor Authentication
 Which second factor and when?
- Group Management Capabilities
 Requirements analysis starting in Q3 2015.
- SAML Attribute Queries

 To update/extend edu-ID attributes by querying IdP (e.g. ETHZ) for linked AAI identities.

Swiss edu-ID Pilot Projects





Rolf Brugger rolf.brugger@switch.ch

Call one year ago

Wanted: more services to be enabled for Swiss edu-ID.

Examples:

- Common web service, preferably of a library
- Non-web resource
- Application for mobile devices
- Resource using ORCID
- Resource using a community-ID or social service
- Resource interfacing/using existing ID-frameworks (STORK, SuisseID, Mobile ID, Swiss passport)



Pilot Projects in the Pipeline

Confirmed pilot projects

- Swiss edu-ID authentication on swissbib
- Migration of other services using aai guest login
- Swiss edu-ID authentication on mySNF (SNF)
- Swiss edu-ID authentication on SWITCHdrive
- Mobile Edu App (Mobile WG)
- Registration of prospective students (SUPSI)
- Transfer alumni portfolios to SWITCHportfolio (UniGE)
- Organization as Attribute Authority (UniL)
- Swiss edu-ID authentication on i-brain.ch (HES-SO)

Under evaluation

- Access an management of digital diploma (HES-SO)
- Self registration for prospective students (UNIBAS)
- Low-threshold registration for information events (FHNW)
- Eduroam for advanced studies (UniBAS)
- Guest-accounts (ETHZ)
- rechtsquellen.ch
- Adult learning information center (alice.ch) to adopt SWITCHportfolio



Completed case: SWITCHportfolio

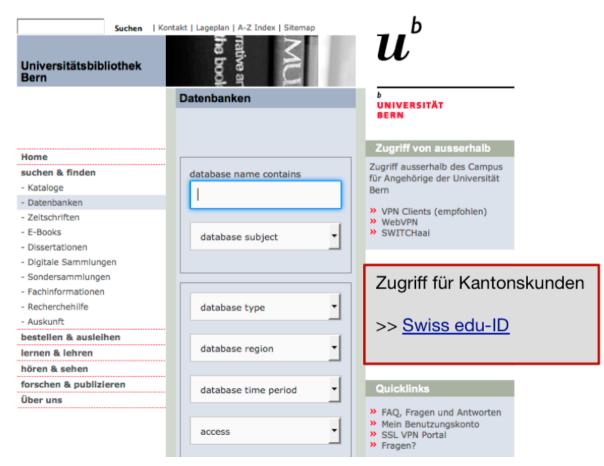
- Students use and maintain a personal competence portfolio during their studies
 - Didactical tool
 - Proof for achieved competencies
 - Develop personal competencies
- Continuing usage after studies
- → Alumni-Tenant in SWITCHportfolio with Swiss edu-ID Login

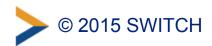


Possible improvement: Automatically migrate users to alumni-tenant

Abandoned Case: Users of the University Library (UB) Bern

- UB clients (legal obligation)
 - University Bern affiliates
 - -Residents of canton of Bern
- → Swiss edu-ID Login for residents of the canton of Bern
 - Residence check using postal mail performed in Swiss edu-ID



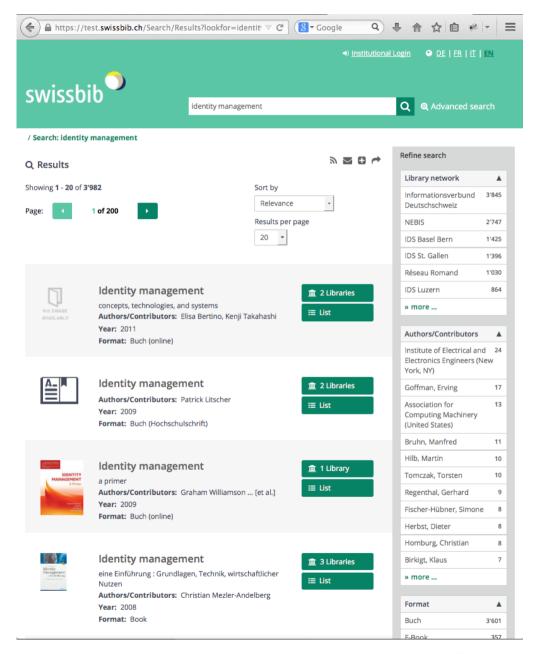


Confirmed Pilot Projects



Case: Swissbib

- Personal profile: preferences, contact information, bookmarks, wish-list, history, etc.
- User:
 - higher education members
 - lecturers at multiple universities
 - former students (Alumni)
- → Profile with Swiss edu-ID login
- → Migration of guest login





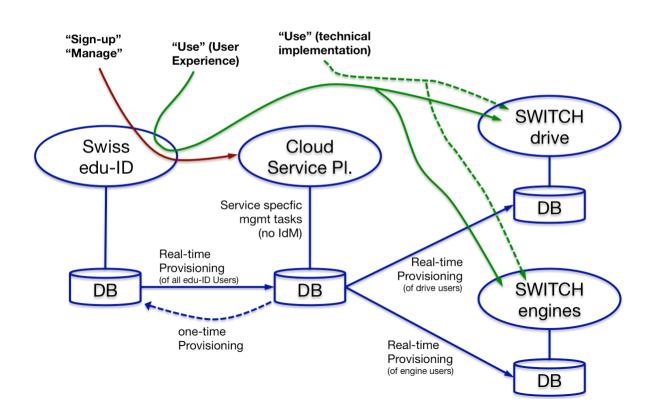
Migration of other services using the SWITCHaai guest login

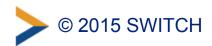
- ETHZ Sharepoint
- ETHZ Blogs
- SWITCHtoolbox
- Some other tools

- Accounts are manually consolidated
 - writing conventions
 - duplicates
 - non-personal accounts
- User can re-use the same password

Case: SWITCHdrive and SWITCHengines

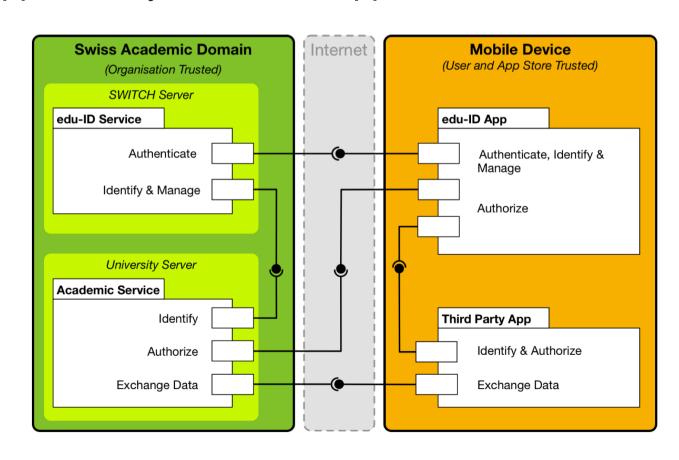
- Current cloud accounts to be replaced by Swiss edu-ID
- Multiple clients to be supported
 - -Web client
 - -Non-web clients: ssh, WebDAV, native Client
- Deal with multiple affiliations

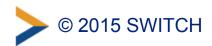




Pilot Project: Mobile App

- One single authentication app authorizes many local third party apps
- Supports native apps and hybrid mobile apps
- Proof-of-concept:
 - Integrate mobile apps and LMS
 - Integration withSwiss edu-ID





Case: Registration of Prospective Students (SUPSI)

- Current registration process:
 - 1. Create an initial registration account (throw-away id)
 - 2. Applicant provides information and documents required for registration
 - 3. Admission office checks the applicants request
 - If the application request is accepted the applicant is officially enrolled and he/she gets an official identity
- Project aim:
 - Replace throw-away id with Swiss edu-ID

More Pilot Projects

- i-brain (HES-SO)
 - Collaborative idea management and brainstorming platform
 - -to be used by university members and public



Chalet village

Which services should be proposed in a chalet village for the vacation to be a success?

renforcer le rituels sociaux de l'année



je m'engage et mon énergie investie baisse ma c...



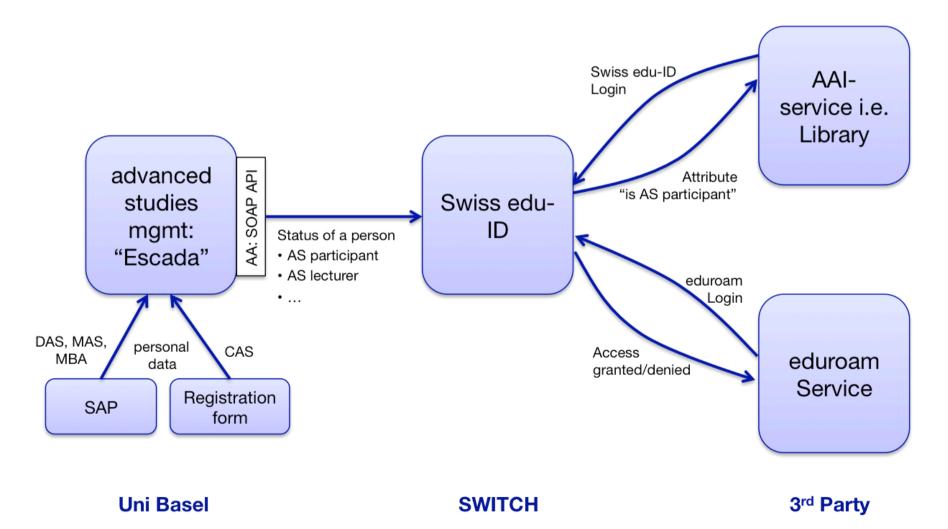
- Transfer alumni portfolios to SWITCHportfolio (UniGE)
 - Locally hosted e-portfolios are transferred to national SWITCHportfolio service for alumni



Pilot Projects under Evaluation

Case: eduroam for Further Education Students at the University of Basel

CAS students are not centrally registered



Case: Event Registration at FHNW

- Simple / low-threshold registration
 - For large public (non-students, non-staff)
 - IT services provide registration API (exposed to the public)
 - -Departments implement customized registration forms using the API
 - Users allow registration forms to access the institutional person information system (access delegation)
- → Requires OAuth 2.0 / OpenID Connect

More Cases under Evaluation

- Access an management of digital diploma (HES-SO)
- Self registration for prospective students (UNIBAS)
- Guest-accounts (ETHZ)
- Law Sources Foundation (rechtsquellen.ch) of Swiss Lawyers Society
- Adult learning information center (alice.ch) to adopt SWITCHportfolio

Related CUS-P2 Projects

- Digital Lifecycle Management
 - Group management
- Swiss edu-ID Mobile App
 - Access for mobile clients

Implicitly related

- Data Analysis Service
- -National Licences

Call one year ago = today

Wanted: services to be enabled for Swiss edu-ID:

- Common web service, preferably of a library
- Non-web resource
- Application for mobile devices
- Resource using ORCID
- Resource using a community-ID or social service
- Resource interfacing/using existing ID-frameworks (STORK, SuisseID, Mobile ID, Swiss passport)



Swiss edu-ID Working Groups

Results and Further Steps





Petra Kauer-Ott petra.kauer@switch.ch

Pre-Project Work

AAI Attribute Task Force

Discussion about eduPerson, swissEduLibraryPerson, ORCID, Swiss edu-ID/Identifier

→ Result: Input for Identifier Specification

Identifier Specification WG

2 institutions: BFH, ETH library

→ Result: Unique Identifier Specification (Nov. 2014)

High Level Architecture WG

7 institutions: ETHZ, ETH Library, UNIBAS, UNIGE, UNIL, UNISG, USI, UZH

→ Result: HLA Document (July 2014)



Phase I Working Groups

- A. Processes
- B. Regulations
- C. ORCID
- D. Mobile App Support
- E. Governance Model
- F. Business Model



A. Processes WG



IdM processes specification

- describe IdM related processes in detail
- · describe interfaces

Collection of process descriptions, institutional plans, pilot ideas, issues and

Members

9 institutions:

ETHZ, FHNW, UNIBAS, UNIBE, UNIFR, UNIGE, UNIL, UZH, ZB

(Moderation: Petra Kauer-Ott)

Meeting Oct 28 2014 & individual interviews

questions

Processes WG - Results

Processes WG report

Identification of most promising pilots:

- 1. e-portfolio transfer to national instance (access to resources for alumni)
- 2. authentication for SWITCHdrive
- 3. self-registration for candidates and guests
- 4. validated identities for library users

UNIL volunteering as candidate for an **Attribute Authority pilot**

Processes WG – Essential Features

- E-Mail address validation
- Self-registration process (-> integration into services)
- Verification of identity
- Binding rules & process for changes of core attributes (as name, based on role)
- Support attribution of access rights (with specific attributes -> basic roles)
- Uniqueness of identity (e.g. duplicate-checked -> Guest IdP migration to test duplicate checks)
- Legal framework (-> Regulations WG)
- Attribute history (-> recovery/reset process)
- Validation rules (accepted and controlled)



Processes WG – Important Features

- Additional contact attributes (like office address)
- Attribute status active/passive (detection of inactive users)
- Time stamps for attributes (history of changes)
- Validation of residence address (prepared)
- Verification of added or changed attributes (for AAI Attributes)
- Additional official identifier attributes (as OASI/AHV etc.)
- Enforce user-consent for external resource access
- Support of local attributes
- Import and change of attributes supported
- Sustainable concept for Levels of Assurance for attributes
- Processes for regular updates & "incentives"/information for users
- Care concept for LoAs (technically supported processes)
- Auditing of own and partner behaviour (governance)



Processes WG – Nice to have Features

- Additional "Portfolio" attributes (like diplomas, certificates etc.)
- Email provided with Swiss edu-ID (lifelong)
- LoAs compatible with LoA standard and own IdM
- 2-factor authentication (-> use case at UNIGE)
- Support of group management functions (-> working group)
- Building attribute sets (e.g. similar data, with same LoA)
- Levels of Assurance for authentication method enforcement

B. Regulations WG



Legal framework

- identify regulations and discuss/clarify relevant questions within institutions
- define policies institutions need
- bring in institutional experiences with end user policies

Collection of questions

Members

6 institutions: ETHZ, UNIFR, UNIGE, UNIL, USI, ZHAW

(Moderation: Esther Zysset)

Meeting Nov 20 2014



Regulations WG – First Results

Data Protection Commissioners consultations:

- Zurich (March 2015)
- Federal (June 2015)
- Lucerne (July 2015)

Planned:

- Fribourg (August 2015)
- 1-2 additional meetings with Data Protection Commissioners
- Collection of relevant institutional regulations
- → no show-stoppers have been identified
- → attributes will have to be transferred to the Central Identity Provider once a person has left the University

A summary of conclusions from the various Commissioners will be made available to the Working Group

C. ORCID WG



ORCID integration

- describe current and possible future use of ORCID
- describe processes for integration at institutions & possibilities of ORCID provisioning for institutional processes

presentations of status at institutions

- ideas for ORCID projects

Members

7 institutions: ETHZ, MDPI, SNF, UNIBE, UNIGE, UZH, ZB (Moderation: Rolf Brugger)

1 online meeting and 1 meeting in Berne, Oct 16 2014



ORCID WG - Results

1. ORCID WG report

- ORCID implementations at UNIBE library and MDPI
- Project plans at ETHZ, SNF and UZH

2. ORCID integrated into Swiss edu-ID as linked ID

- 3. Follow-Up meeting organized by community (libraries, research output measurement) (24.6.2015, Berne)
 - Usage of ORCID grows
 - Swiss Consortium under construction
 - Differentiation to Swiss edu-ID necessary

D. Mobile App Support WG



Better	mobi	le suppo	ort
	• •	•	4

- describe requirements of institutions/users
- discuss ideas for better mobile support
- evaluate existing solutions
- Status at institutions
- Possible candidates for pilots

Members

6 institutions: ETHZ, FHNW, HES-SO, HTW Chur, UNIFR, UNIGE (SWITCH: Lukas Hämmerle)

Individual interviews and one group interview



Mobile App Support WG - Results

Mobile App Support WG report:

- Support of mobile applications is a must but not a high priority
- Long authentication session timeout is a precondition for additional functions like learning analytics
 - 1. Low number of mobile applications
 - 2. Several Apps work without authentication
 - 3. Low number of users per App
 - 4. Web-Apps can use authentication with AAI (some universities avoid native development)
 - 5. Small interest in AAI Mobile Proxy
- → Pilot Project for a mobile authentication App was submitted by Christian Glahn, HTW Chur and partners.

E. Governance Model WG



 Governance documents act out cases to check usability and robustness of governance model identify points to be adapted/improved discuss issues with legal representatives at institution 	Members 4 institutions: FHNW, UNIGE, UNISG, USI (Moderation Christoph Graf)
Discussion of Governance structures and measures to take	Meeting May 4 2014

Governance Model WG - Results

Governance Model WG report

is base for the future Governance Model for Swiss edu-ID

- 1. Use existing Governance structures
- 2. Expand AAI Community Group with additional stakeholder groups:
 - University administrations
 - Continuing Education
 - Alumni Organisations
 - third party Service Providers (depending on Business Model)
- 3. Discussion of Governance changes with AAI Advisory Committee
- 4. Additional input of Processes WG
- 5. Technical Standards Taskforce (Attribute TF with enlarged scope)



F. Business Model WG



Business modelsdiscuss and evaluate different model options	Members 4 institutions: FHNW, UNIGE, UNISG, USI (Moderation: Christoph Graf)
Description of assumptions, methods and further steps to elaborate final version of Business Model	Meeting May 4 2014

Business Model WG - Results

Business Model WG report

- assumption that institutions will use Swiss edu-ID
- not charge the users
- increase user-base is necessary
- keep parallel operation period of SWITCHaai and Swiss edu-ID short
 - → early migration important!
- involve new stakeholder groups (including third parties)

Working Groups Phase II

Open Calls for

- 1. Group Management
- 2. Processes II

Regulations WG (continuation)

Ev. group for Roadmap 2017+

Call Group Management WG

Provide input for Swiss edu-ID group management functions

- Elaborate use cases
- Define requirements based on real cases

Member Profile:

- responsibles of tools or projects with a need for group management functionalities
- people involved in group management projects
- knowledge about group management tools and functions

Individual follow-up meetings to elaborate use cases/pilots

ca. 1 day; Aug.- Oct. 2015 1 meeting in person

Call Processes II WG

Requirement catalogue for Swiss edu-ID Version 2.0 and later:

- attribute definitions
- attribute aggregation
- quality levels
- attribute verification
- interface descriptions
- etc.

Member Profile:

- Processes WG
- profound understanding of IdM/IAM processes within institution
- able to identify weak or critical points of current and future solutions
- discuss issues with stakeholders at institution

Feedback about the draft requirement catalogue

ca. 1 day; Oct. – Dec. 2015 meeting in person, additional topical discussions

Make it yours!

Spread the call

and contact us for

- presentations/discussions
- comments & suggestions
- pilot options

Contact:

swisseduid@switch.ch

Details about current call:

http://swit.ch/eduid_workgroups





OAuth 2.0 and OpenID Connect in the Swiss edu-ID





Rolf Brugger rolf.brugger@switch.ch

Motivation to consider OAuth 2.0 and OpenID Connect

- Enable native mobile applications and non-web resources
 - Shibboleth/SAML is a web browser based technology
- Provide more developer-friendly environment
 - Shibboleth setup and configuration is complex
 - -But complexity of scalable OIDC federation unknown

OAuth 2.0



- Framework for authorization protocols
 - Avoid password proliferation
 - -Protect APIs
 - Mobile access to server systems
 - User authentication
- Specifies a set of message flows
- Based on http and JSON
- Specification finalized: October 2012 (RFC6749)



OpenID Connect

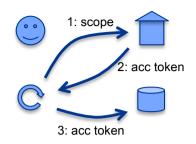


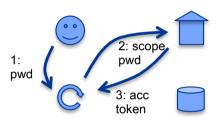
- Provides identity services: adds user attributes (ID Token)
 - -User ID, profile data, authentication meta information
- Based on OAuth 2.0
- Scalable security model (ISO/IEC29115 LoA1...4)
- Base specification finalized: February 2014
 - Missing application profiles like interoperable attribute specifications

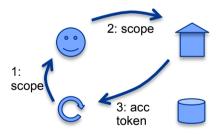
OAuth 2.0 Flows

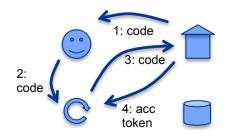
OAuth 2.0 usage scenarios (flows)

- Service-service communication: client credential flow
 - -Without involving a user
- Trusted clients: resource owner password credential flow
 - Client sees password
- Untrusted clients: implicit flow
 - Password not revealed to client
- Client runs on server: authorization code flow
 - -Token stored on server side (ORCID case)











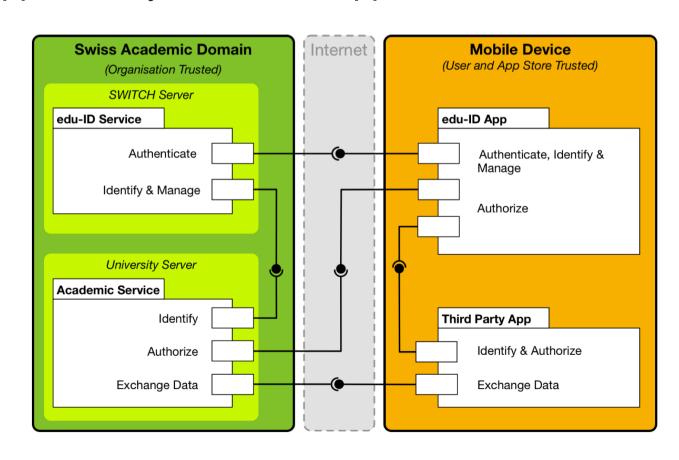
Differences between SAML and OIDC

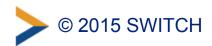
	SAML/shibboleth	OpenID Connect
Federation support	yes	no (no federation metadata)
Developer friendliness	Not reqired	Relying party libraries for various languages
Setup and operation of service	Shibboleth software suite, updates, certificates	OIDC library installation
Non-web / mobile application support	no	yes
Access delegation	difficult (ECP)	yes, including user- initiated token revocation

No fundamental differences: attribute provider, user consent, IdP middleware/server, application registry

Pilot Project: Mobile App

- One single authentication app authorizes many local third party apps
- Supports native apps and hybrid mobile apps
- Proof-of-concept:
 - Integrate mobile apps and LMS
 - Integration withSwiss edu-ID





Other prospective Pilot Projects

- Event registration at FHNW
 - IT services provide registration API (exposed to the public)
 - Departments implement customized registration forms using the API
 - Users allow registration forms to access the institutional person information system (access delegation)

Support for OAuth and OIDC in Swiss edu-ID

Option: Extend Shibboleth

- Shibboleth 3.0 IdP has modular architecture
- OIDC and OAuth are on Shibboleth roadmap with status "under discussion"
- Pilots are possible with 3rd party OAuth suites outside of shibboleth

Option: alternative AM product OpenAM

- OpenAM fully supports
 OAuth 2.0 and OIDC
- Proof-of-concept (July 2015): OpenAM can be made compatible to the SWITCHaai federation

Call for Participation

- Tell us your use-cases
- Let's start pilot projects together

The Future of Identities

The future of AAI and Swiss edu-ID & Outlook to Swiss edu-ID 2.0

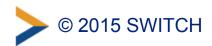




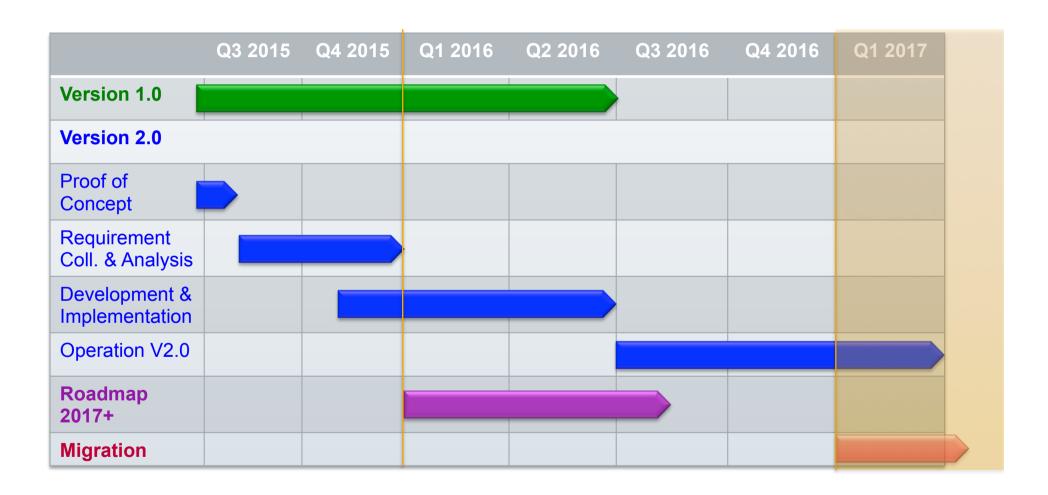
Swiss edu-ID swisseduid@switch.ch

The Future of Identities

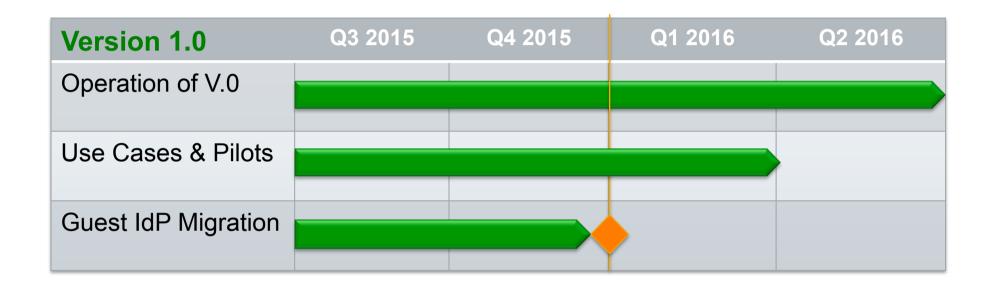
- The project "Swiss edu-ID phase II" (Aug 2015-Dec 2016)
 - -Goal: Implementing Swiss edu-ID V2.0 and planning next steps
 - Vehicle: Our current CUS P-2 project with financial support from swissuniversities
- Outlook 2017-2020
 - Goal: Dissemination, migration from SWITCHaai to Swiss edu-ID
 - Vehicle: a new collaboration project supporting universities (also financially) migrating to Swiss edu-ID
- The international perspective
- How to stay informed and to contribute to Swiss edu-ID



Roadmap Phase II - Overview

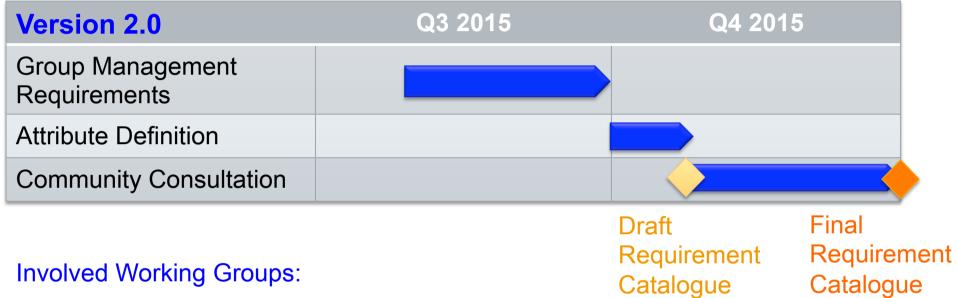


Version 1.0

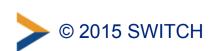


Guest IdP will be migrated to Swiss edu-ID until end of 2015

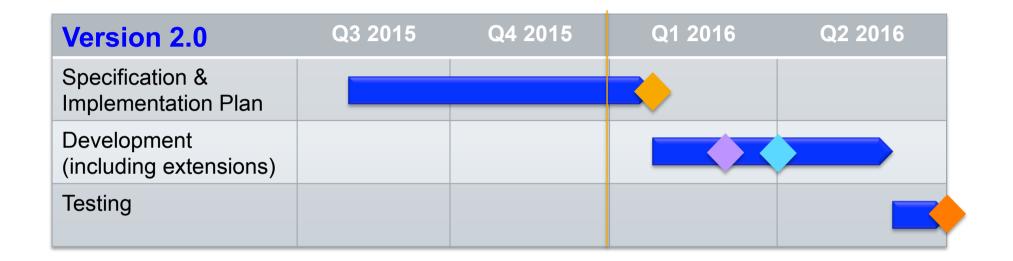
Requirements Version 2.0



- **Group Management**
- **Attribute Task Force**
- Processes II



Development & Implementation



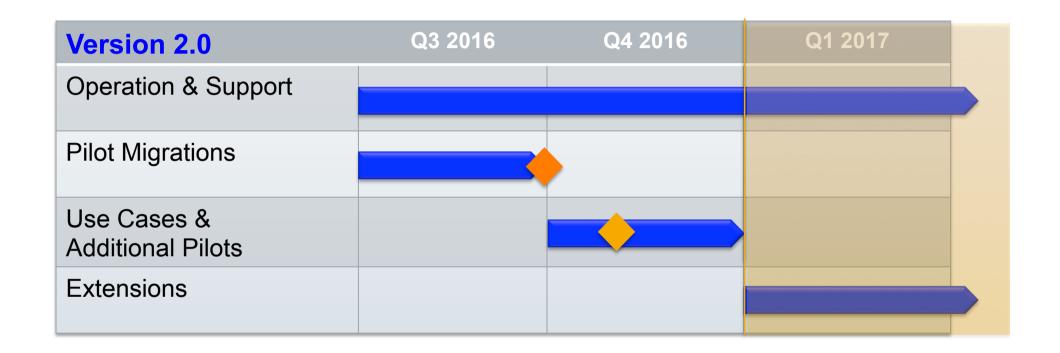
Specification & Implementation Plan completed Legal feasibility checked

Change Management Process implemented Operational Concept V2.0 ready

Test report completed, V2.0 ready



Operation of Version 2.0



SWITCH migrated as one of the pilots

Governance Structures in place Policies implemented Business Model ready for decision



Preparing the Roadmap 2017+



Preparation of a cooperation project for migration of institutions 2017-2020

Working Group to prepare the migration concept

Migration pre-study ready
Migration concept completed
Legal feasibility checked
Application for cooperation project



Outlook: Migration 2017 - 2020



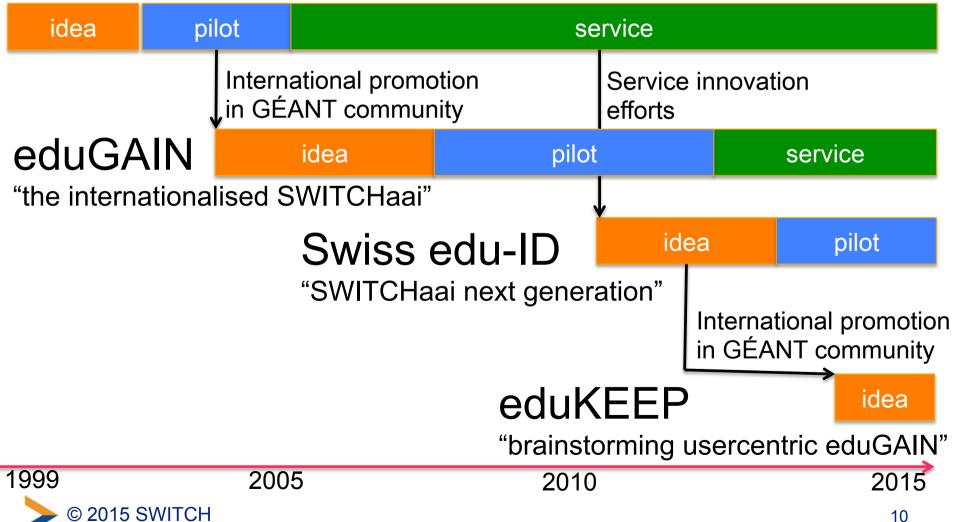
Follow-Up project to support migration of institutions

Manuals & Support material ready



The international perspective

SWITCHaai



Events featuring the Swiss edu-ID

- 13.8.2015 AAI & Swiss edu-ID Update (public)
- 9./10.11.2015 ICT Focus Basel (IT departments)
- end Oct. 2015 P-2 project presentations (public)
- 27./28.1.2016 eduhub days Fribourg (e-learning comm.)
- (tbd) 31.3.2016 Executive Focus (univ. administration)
- summer 2016 Swiss edu-ID Update (public)

Informing and contributing

- Project website: http://projects.switch.ch/eduid/
- SWITCH identity blog: http://identityblog.switch.ch/
- Working groups: http://projects.switch.ch/eduid/working-groups/
- Contact: swisseduid@switch.ch

