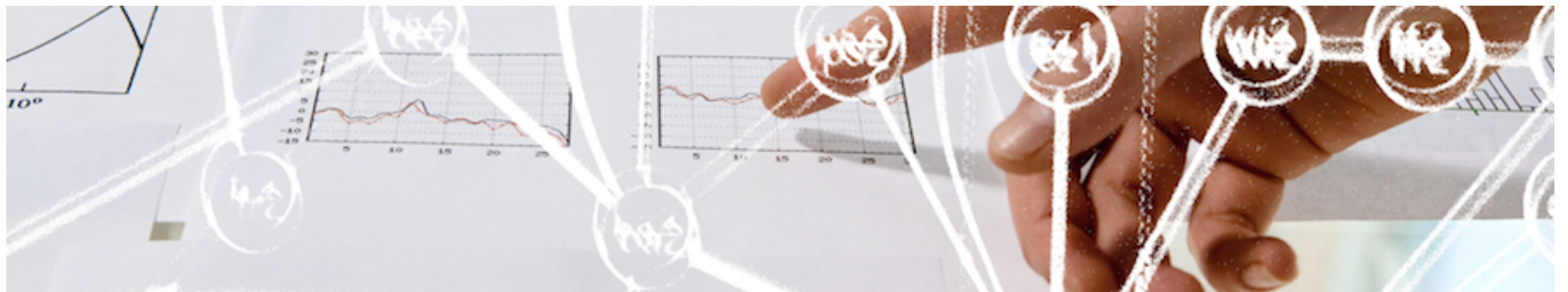


# Swiss edu-ID Architecture



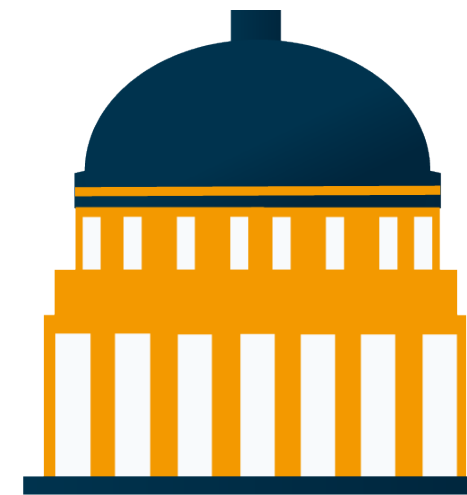
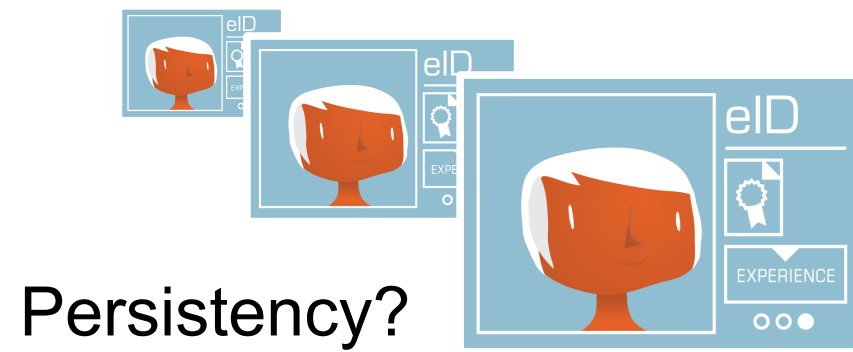
SWITCH

Rolf Brugger  
rolf.brugger@switch.ch

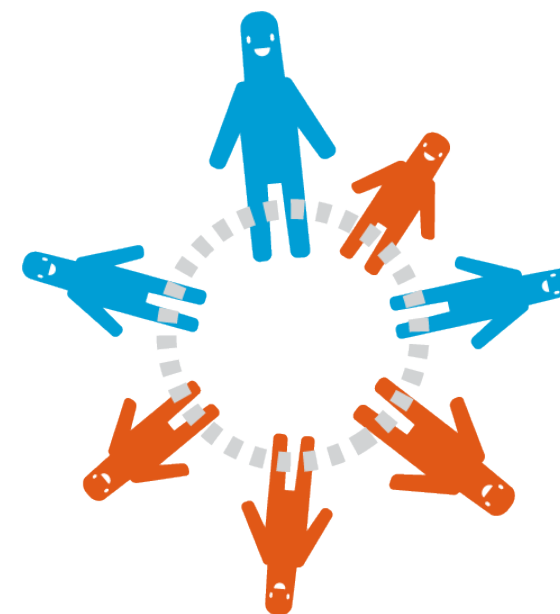
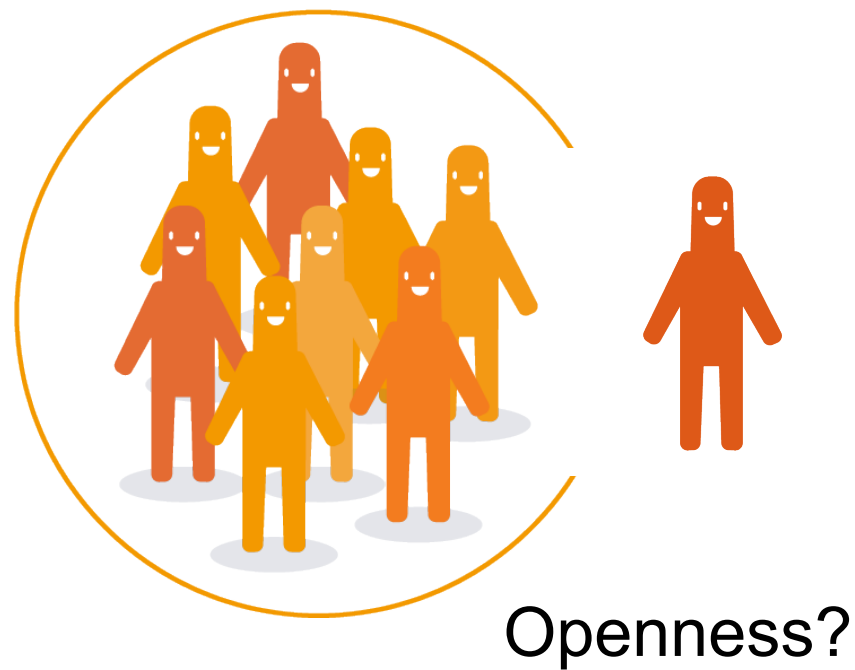
# Swiss edu-ID concept corner stones

- **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**

# Questions from the Community



Role of organisations?



User centricism?

Openness:  
**“Not anyone should have a Swiss edu-ID”**



Having an edu-ID implies access to services

**misconception**

Getting access is done by a

- explicit (identify person)
- implicit (personal attribute)

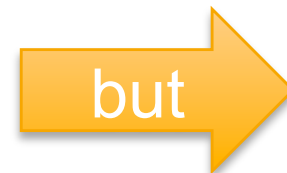
registration procedure

Counterexample:  
ID / Passport

User-centrism:  
**“Make sure Swiss edu-ID has sufficient quality”**



Sharing attributes makes SPs more efficient



Not all SPs need high quality attributes

attribute quality



low entrance barrier

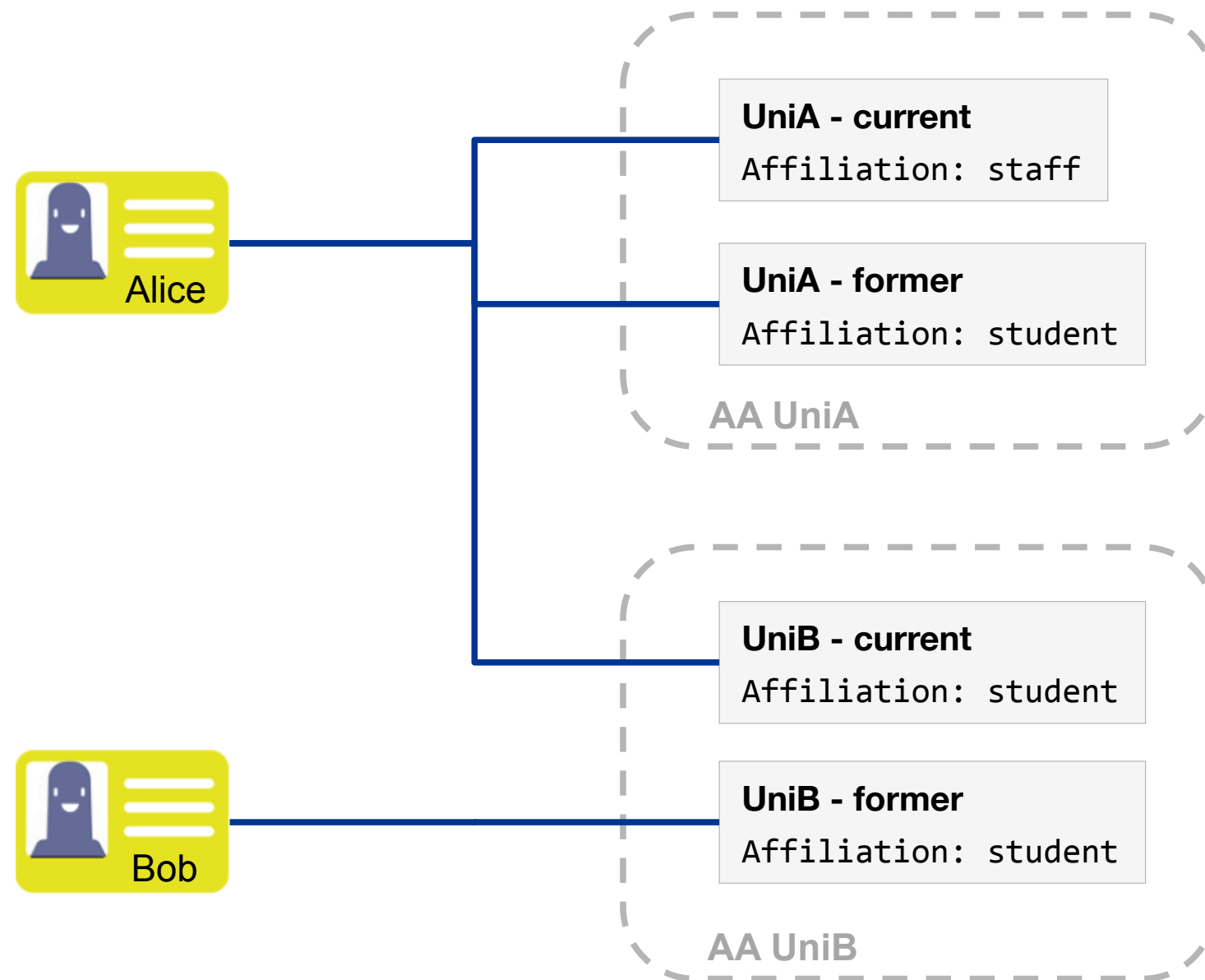
Counterexample:  
Github-ID



# Swiss edu-ID quality model

- Authentication quality: NIST SP 800-63-2
  - Level 1: no id proving
  - Level 2: single factor auth
  - Level 3: multi factor auth
  - Level 4: multi factor auth with hard cryptographic tokens
- Attribute validation quality: eCH-0171 quality model
  - Level 1 “low”:  
Minimal trust in asserted value
  - Level 2 “medium”:  
Basic processes and control mechanisms. Verification with non-official ID or certificate
  - Level 3 “high”:  
Processes and control mechanisms are supervised by external entity. Verification with more than one non-official ID or certificate
  - Level 4 “very high”:  
Processes backed by legal standards. Supervision by accredited entity. Verification with official ID or certificate

# Attribute Model Extension



# Attribute Model in Swiss edu-ID

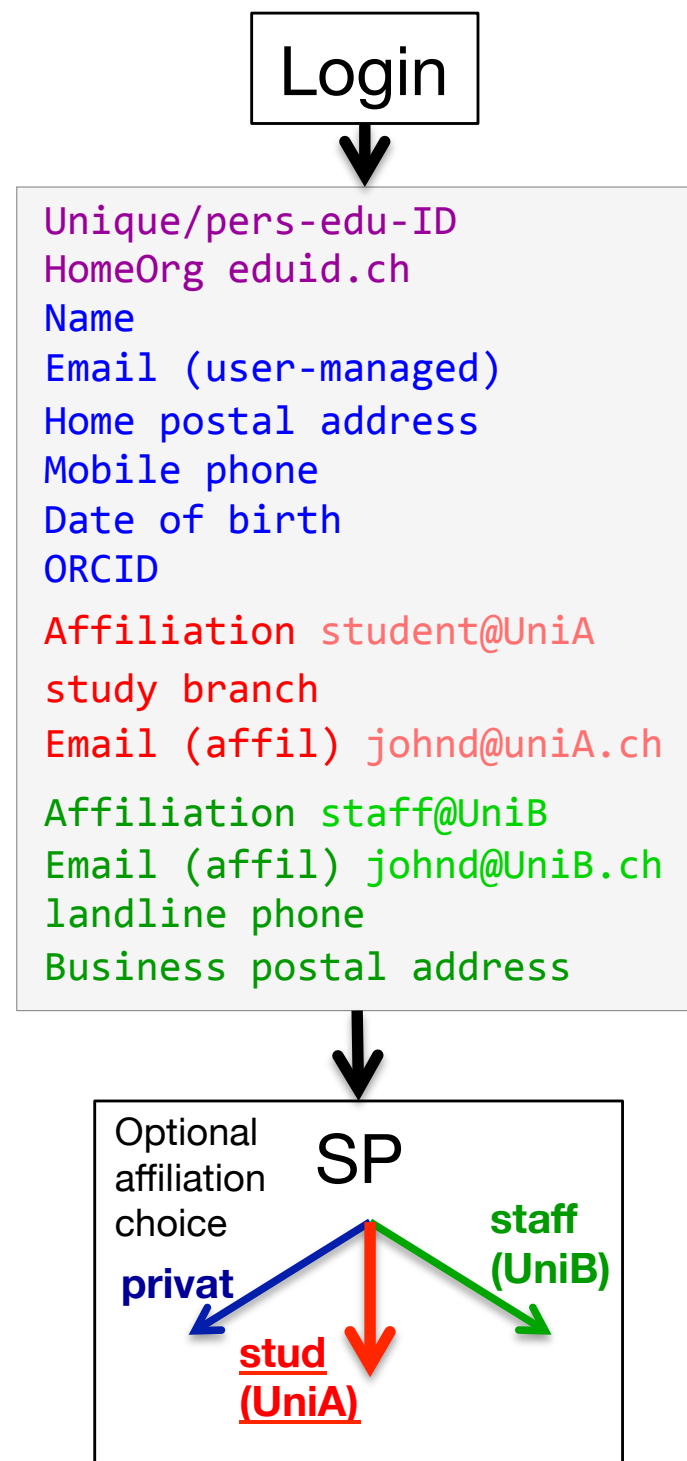
## Extended Model

- Represents multiple or no affiliations in a single attribute statement
- Supports quality model (for user provided attributes)
- Attribute specification based on aai

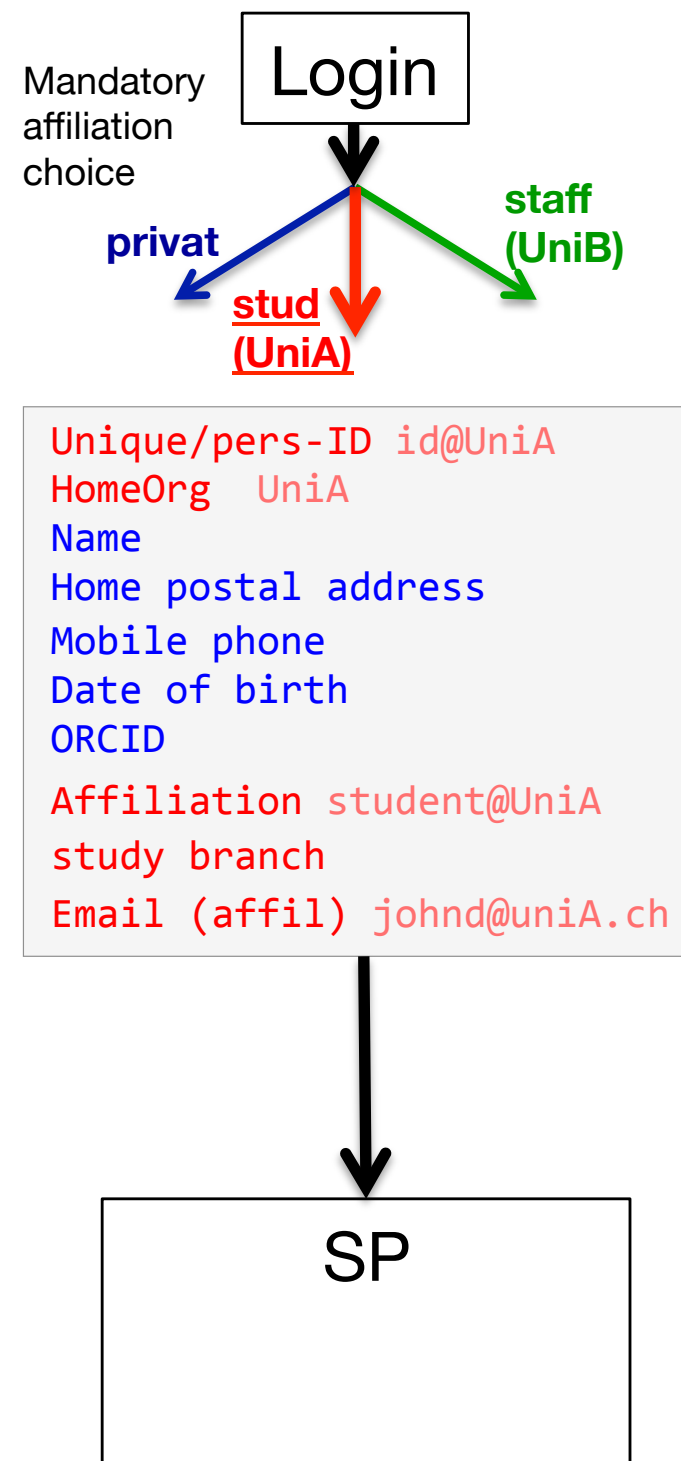
## Classic Model

- Represents exactly one affiliation
- Fully compatible with aai

## “Extended Model”



## “Classic Model”



# Quality in Both Models

## “Extended Model”

Unique/pers-edu-ID  
HomeOrg eduid.ch

Name quality 1..4

Email (user-managed) quality 1..4

Home postal address quality 1..4

Mobile phone quality 1..4

Date of birth quality 1..4

ORCID quality 1..4

Affiliation student **AAI-quality**  
study branch

Email (affil) johnd@uniA.ch

Affiliation staff@UniB

Email (affil) johnd@UniB.ch

landline phone

Business postal address

## “Classic Model”

Unique/pers-ID id@UniA

HomeOrg UniA

Name **AAI-quality**

Home postal address

Mobile phone

Date of birth

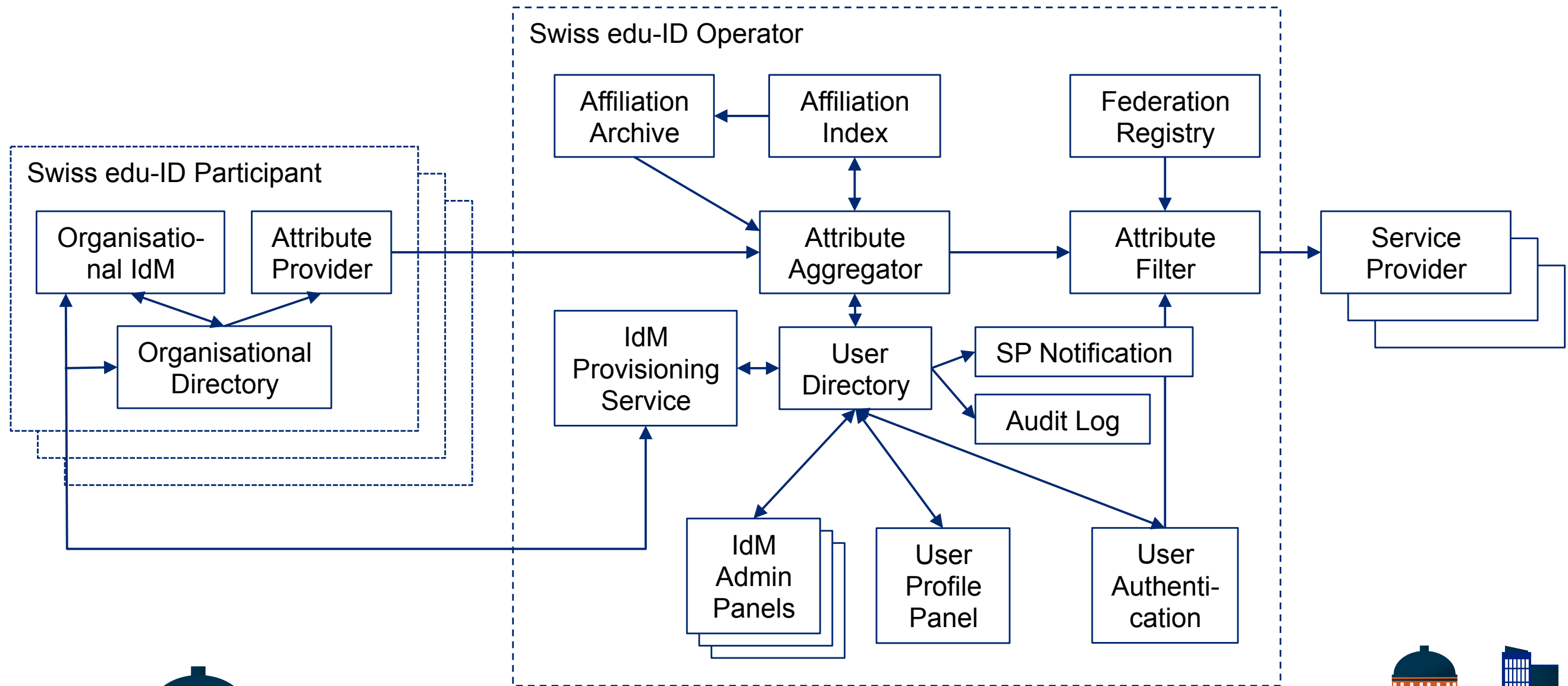
ORCID

Affiliation student@UniA

study branch

Email (affil) johnd@uniA.ch

# Basic Components of Swiss edu-ID



Participants



Operator



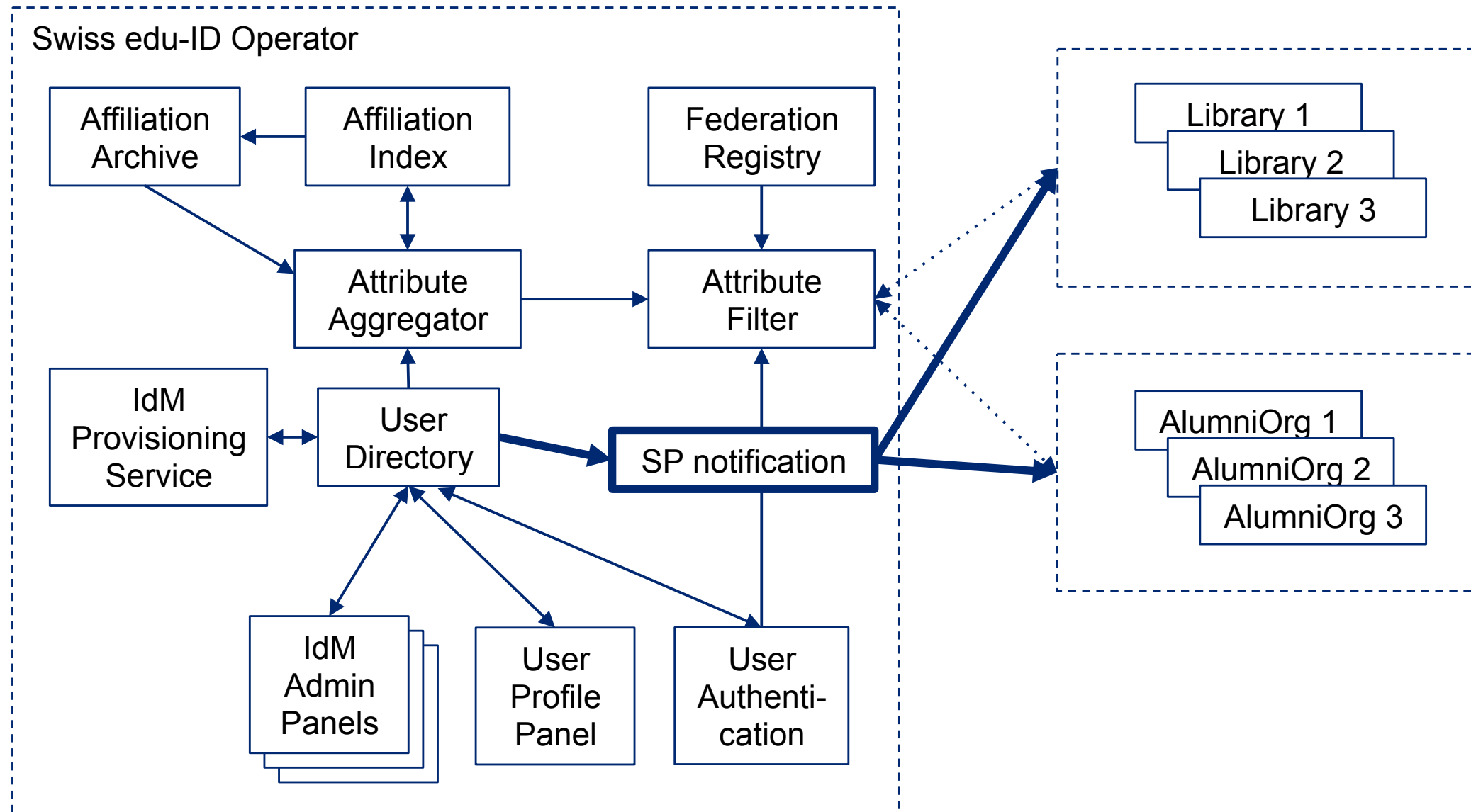
Participants and Federation Partners



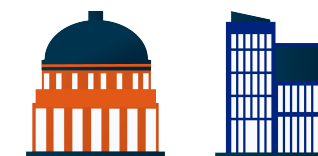
# Roles and Responsibilities

Role	Description
<b>Service Registration Administrator at Participant</b>	<b>Confirms/rejects Service Providers from own organisation</b>
<b>Service Registration Administrator at Operator</b>	<b>Confirms/rejects Service Providers from Federation Partners without Attribute Provider</b>
<b>Service Administrator</b>	<b>Registers and updates Service Provider descriptions in Federation Registry</b>
<b>Attribute Release Administrator</b>	<b>Defines attribute release policy for all Service Providers</b>
<b>IdM Administrator</b>	<b>Handles IdM updates</b>
<b>Participant IdM Administrator</b>	<b>Signs federation partner agreement</b>

# Keeping SPs up to date

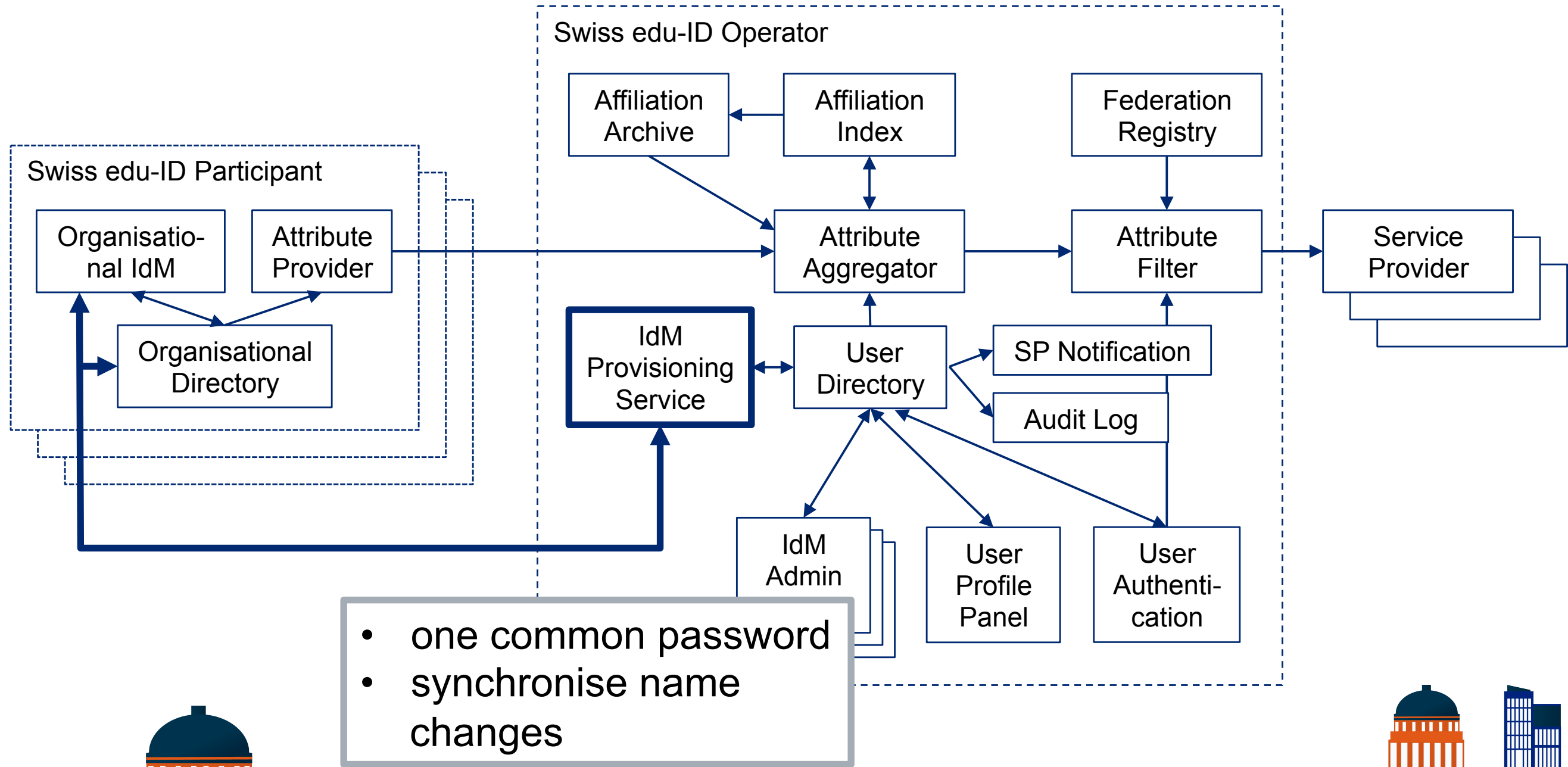


**SWITCH**  
Operator



**SWITCH**  
Participants and  
Federation Partners

# Synchronize IdM of Universities and Swiss edu-ID



Participants



Operator



Participants and Federation Partners

# Identity Management Processes

- Account...
  - Creation
  - Blocking / unblocking
  - Deletion
- Death of a user
- Attribute...
  - Editing
  - Verification
- Duplicate account...
  - Detection
  - Resolution
- Current affiliations...
  - Person enters an organisation (add affiliation)
  - Person leaves an organisation (transform affiliation “current -> former”)
- Former affiliations...
  - Add
  - Edit
  - Delete

**Blog:** [identityblog.switch.ch](http://identityblog.switch.ch)  
**Website:** [eduid.ch](http://eduid.ch)



**Project ONLA**

**n|w** University of Applied Sciences and Arts  
Northwestern Switzerland

Zürich University  
of Applied Sciences

**zh  
aw**

# AAI & Swiss edu-ID Update 2016

(30.6.2016, Bern)

## Registration Portal with Evento and Swiss edu-ID

Franz Süss (Project Manager, ZHAW)

Michael Hausherr (Enterprise Architect, FHNW)



# Project ONLA

## Contents:

- Project development process
- Current situation
- Solution (overview)
- Swiss edu-ID

# Project ONLA

## Project development process:

- April 2015: Start project "*Online Anmeldung*" (online registration)
  - No really suitable tool available on the market.
  - Either not enough features or competitor to existing EVENTO.
- August 2015: Clear commitment for a "**integrated solution**".
  - Not another standalone tool (and complicated interfaces...)
  - Discussing with Crealogix (manufacturer of Evento):
    - Surprising answer: "Of course Evento provides this feature which is running for several universities in Germany. But in Switzerland the universities decided years ago not to use this feature."

# Project ONLA

## Project development process :

- October 2015: Discussion with FHNW colleagues.
  - FHNW on the way to create tender documents.
  - Already decided to cooperate with SWITCH Swiss edu-ID.
- November 2015: Decision to implement the project together.
  - Solution with Evento + new WebModules and Swiss edu-ID.
  - EFHG gets new project owner for the SW-dev part in Evento.
    - EFHG = 11 universities formed together a panel to develop 'their' Evento.
    - 11 universities share the costs – and can use the new online registration.
    - ZHAW and FHNW run the project together.

# Project ONLA

## Current situation:

- Crealogix is programming since April.
- Final release will be delivered by end of September 2016.
- 5 universities will install the new release in November 2016.
- Starting with student registrations at beginning of 2017.
  
- Until then: We have a strict schedule and lots of work to do 😊

# Project ONLA

## Solution (overview):

- Web-frontend for candidates, Evento-client for the secretaries.
- Individual registration processes can be mapped.
- Candidates fill in personal data and upload documents and photo.
- Current status of each registration is visible at all times.
- Interaction with candidates over the frontend and per e-Mail.
- Integrated "Student Personal Data Form FFHV/FSV".
- Integrated online credit card payment.
- Authentication using Swiss edu-ID (direct or over ADFS)

# Project ONLA

## Why Swiss edu-ID?

- Challenge of identity:
  - We need to be able to identify each individual login.
  - We may not create any student account before matriculation.
- Swiss edu-ID offers a solution for exactly this problem!



# Project ONLA

## Key integration requirements:

- User Interface:
  - Good and clear information to user about the process
  - Customizable registration/login screens (logo, text, links)
- Technical:
  - Swiss edu-ID internal identifier available for SP
  - SAML2-Support for CLX.Evento OAuth Server

# Project ONLA

## User Information (mockup FHNW):



Fachhochschule  
Nordwestschweiz

**FHNW online Anmeldung für  
Bachelor und Masterstudiengänge**



---

**Online Anmeldung**

### Studienanmeldung

Bewerbende benötigen zum Einloggen auf das Online-Anmeldeportal eine Swiss edu-ID.

Wenn Sie eine Swiss edu-ID besitzen, dann klicken sie auf «Anmelden» und loggen sich mit ihrer Swiss edu-ID ein.

Wenn sie keine Swiss edu-ID besitzen, dann klicken Sie auf «Registrieren». Sie können dann bei SWITCH (Verwalter der Swiss edu-ID) eine solche ID registrieren. Danach werden sie direkt ins online Anmeldeportal der FHNW weitergeleitet.

Nachdem Sie sich registriert haben, erfolgt das Login mit Ihrer Swiss edu-ID zukünftig über den Button «Anmelden».

-> [Was ist eine Swiss edu-ID \(SWITCH\)](#)

English

**Informationen für:**

- Studieninteressierte
- Weiterbildungsinteressierte
- Unternehmen & Institutionen
- Forschungsinteressierte
- Studierende
- Mitarbeitende

---

Folgen Sie uns auf 

**News**

Info-Abend Master in Life Sciences: 9. März 2016

Info-Veranstaltung Bachelor in Life Sciences: 27. November 2015

Nächste Weiterbildungs-CAS in aktuellen Umweltbereichen starten im Frühjahr und Herbst 2016

Weitere Arbeitskräfte für die Life Sciences: 97 Fachleute diplomiert

Erneute Auszeichnung an einen jungen Forscher der Hochschule für Life Sciences FHNW

[Alle News](#) [FHNW News](#)

---

**Events**

27.11.2015

## Customizable registration/login screens (mockups FHNW)

Access your Swiss edu-ID Account

SWITCH

n|w Fachhochschule  
Nordwestschweiz

[Login](#) | [About](#) | [Help](#) | [Terms of Use](#)

1 Authentication 2 Account Data

Bitte logen sie sich zuerst mit ihrer Swiss edu-ID am Anmeldeportal der FHNW ein:

**Authentication**

E-mail Address

Password

[Create Swiss edu-ID account](#) [Lost password?](#)

Login

© 2015 SWITCH and [licensed content](#) / [Legal notice](#) / [Imprint](#)

Registration

SWITCH

n|w Fachhochschule  
Nordwestschweiz

[Login](#) | [About](#) | [Help](#) | [Terms of Use](#)

1 Account Creation 2 E-mail Verification 3 Account Activation

Please complete the following form to create a new Swiss edu-ID account.

**Authentication Data**

E-mail Address

Password

Confirm Password

How much is:

**Personal Data**

First Name

Last Name

I fully understand and accept the [Terms of Use](#) for creating and using a Swiss edu-ID account.

The Terms of Use will also be sent to you by e-mail when your account has been successfully created.

Create Swiss edu-ID account

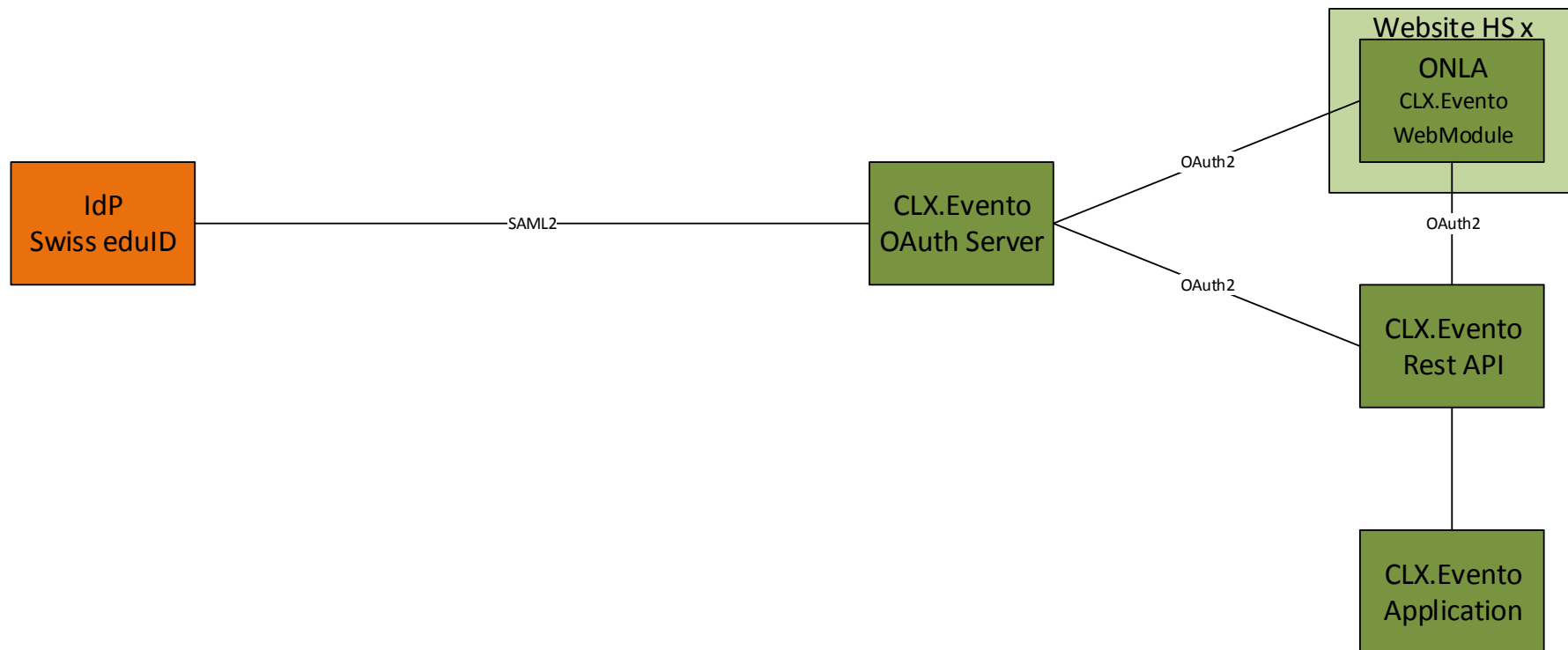
© 2015 SWITCH and [licensed content](#) / [Legal notice](#) / [Imprint](#)

Specification draft:

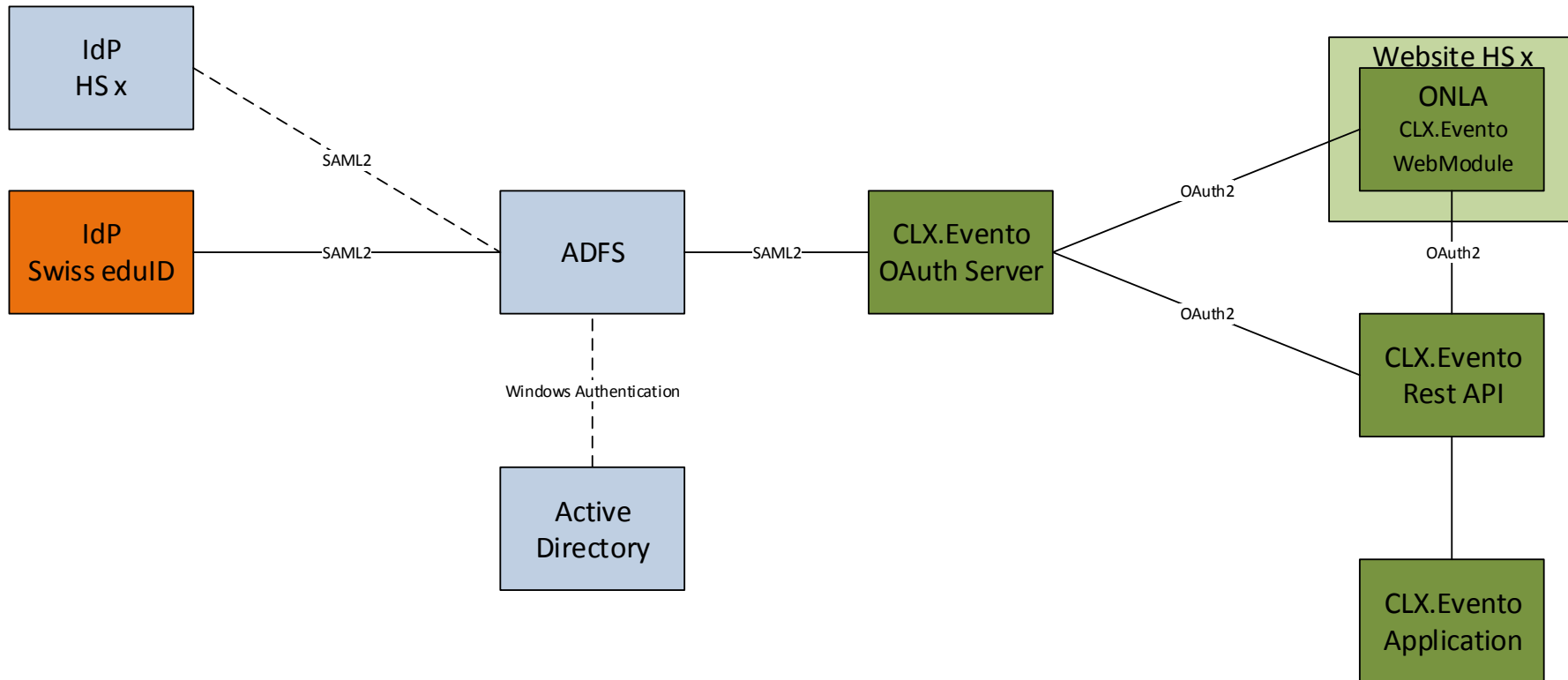
[https://forge.switch.ch/projects/edu-id/wiki/Swiss\\_edu-ID\\_Registration\\_Form\\_Parameters](https://forge.switch.ch/projects/edu-id/wiki/Swiss_edu-ID_Registration_Form_Parameters)

# Project ONLA

## Architecture A (Swiss edu-ID exclusively):



## Architecture B (multiple Authentication methods):



## Technical solution with Swiss edu-ID:

- For new candidates:
  - Create a Swiss edu-ID and login to the registration portal.
  - User is created in Evento and its UID stored in the Evento-dB.
- For candidates who already have an internal account (employees, current students):
  - Architecture A: Need also a Swiss edu-ID
  - Architecture B: Login with existing AD account (via ADFS)

# Project ONLA

## Challenges with Swiss edu-ID:

- Duplicate-detection
  - Recognize at the first login of a new candidate if we already have this person in the dB.
  - Only first name + surname + e-mail is not sufficient.

# Project ONLA

## **Greatest improvement for Swiss edu-ID would be:**

- Social number as a unique identifier stored in Swiss edu-ID would allow us a massive reduction of duplicates.





**HTW Chur**

Hochschule für Technik und Wirtschaft  
University of Applied Sciences




# Mobile Identities with the **EduID Mobile App** Use-cases, Concepts, User Experience





# Mobile workplaces



A photograph of two young children sitting on a bus. The child on the left is wearing a green beanie with a brown horse silhouette and a blue jacket, looking down at a smartphone held in their hands. The child on the right is wearing a brown puffer jacket and red polka-dot sunglasses, also looking at the phone. A third child in a purple jacket is partially visible on the right. The bus window shows a snowy street with a car in the background. A large white text overlay is at the bottom.

**All following generations expect  
*ubiquitous* information access  
in *all* aspects of their lives**



**Mobile technologies  
are omnipresent**





A man in a black jacket and glasses is standing in a subway station, holding a smartphone up to take a photo. The station has a large yellow pillar, a subway map, and a colorful mural in the background. A person with a suitcase is visible in the distance. A large grey arrow points from the top right towards the man.

**Mobile technologies  
are excellent tools for research**





... and for learning



A photograph of two young women sitting on a train. The woman on the left has her hair in a bun and is wearing a light-colored top with a bright orange scarf. She is looking down at a smartphone held in her hands. The woman on the right has her hair in a bun and is wearing a dark leather jacket. She is also looking down at a smartphone. The background shows the interior of a train with wooden paneling and other passengers. A white rectangular area is visible in the top right corner of the image.

**New and more learning contexts**





**No hope for homogeneity**





**The mobile realm is not all  
about the web!**

**Native apps are there  
for a reason**



Mobler



• Spark



Moodle Mobile



Piwik Mobile 2



VidyoMobile



Connect



switchdrive



SBB Mobile



ownCloud



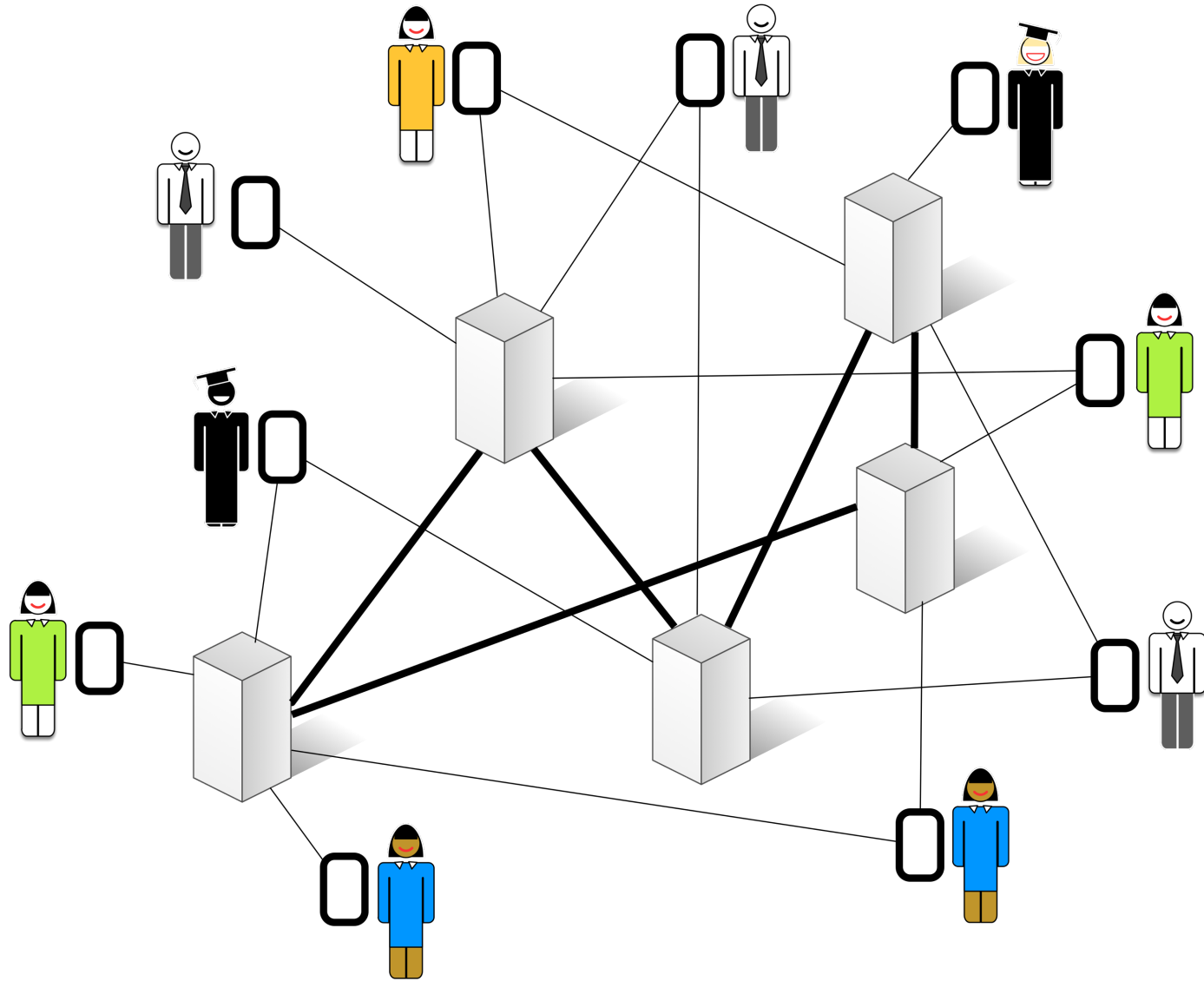
Junos Pulse

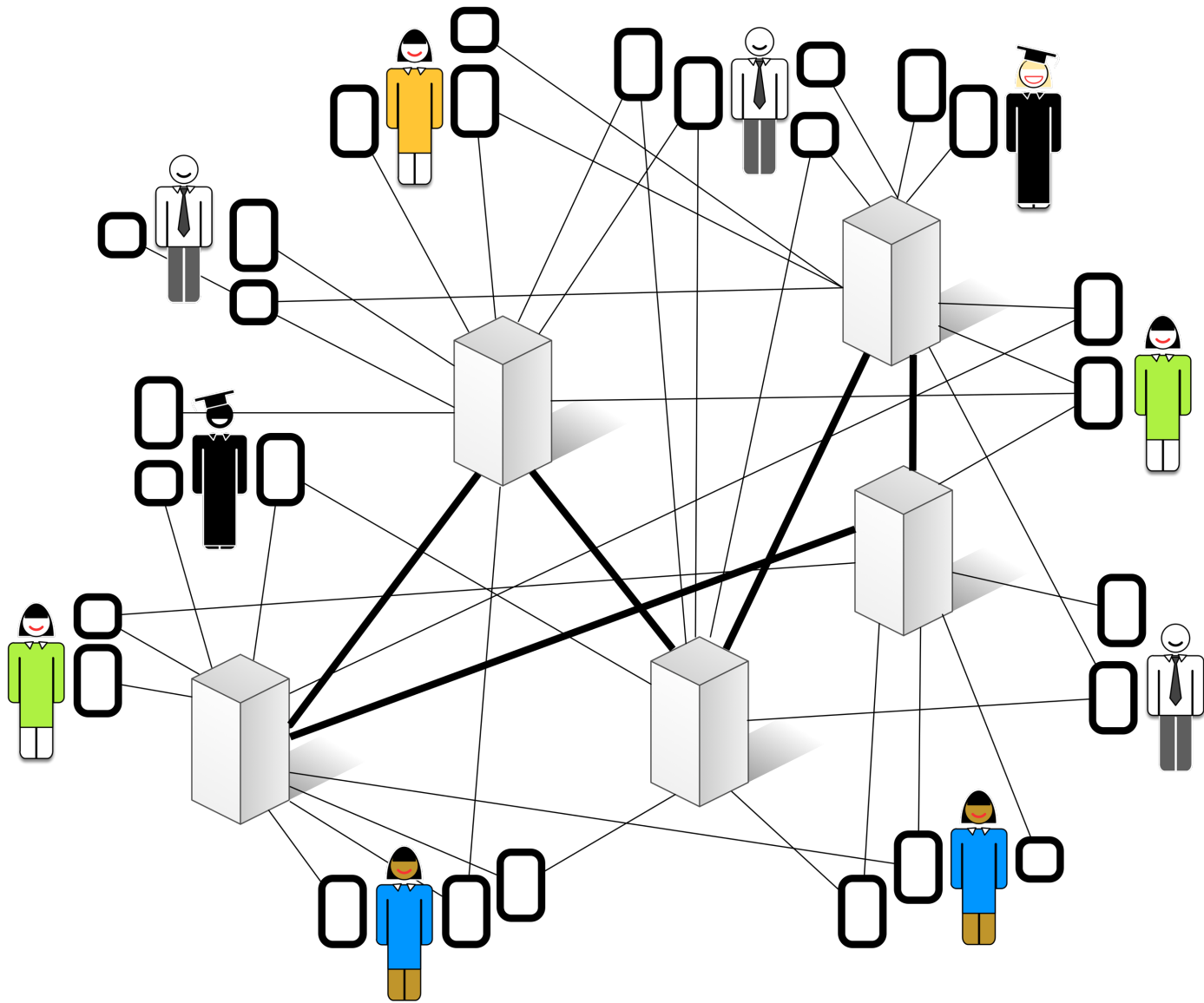


iBooks



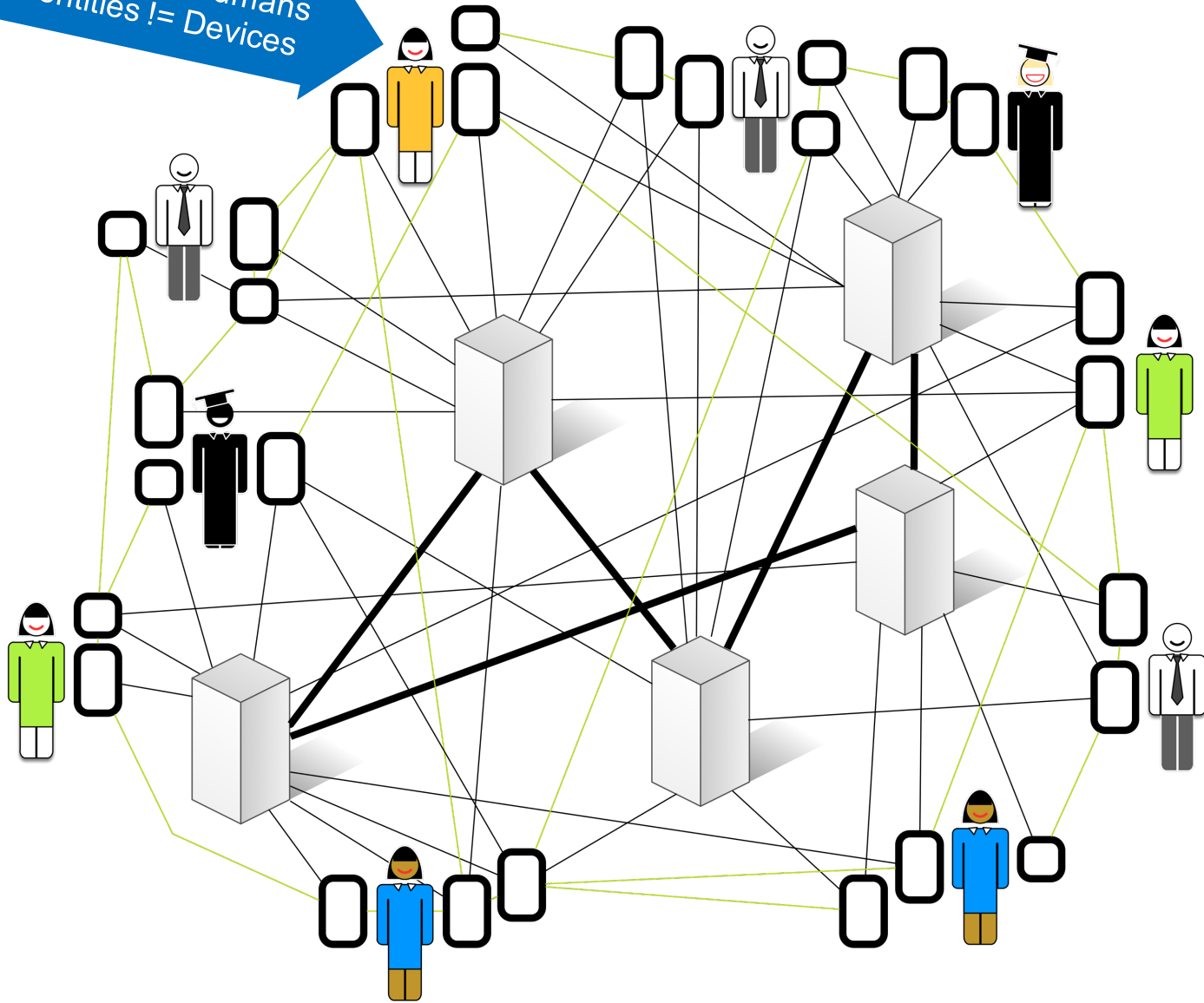
Lynda.com





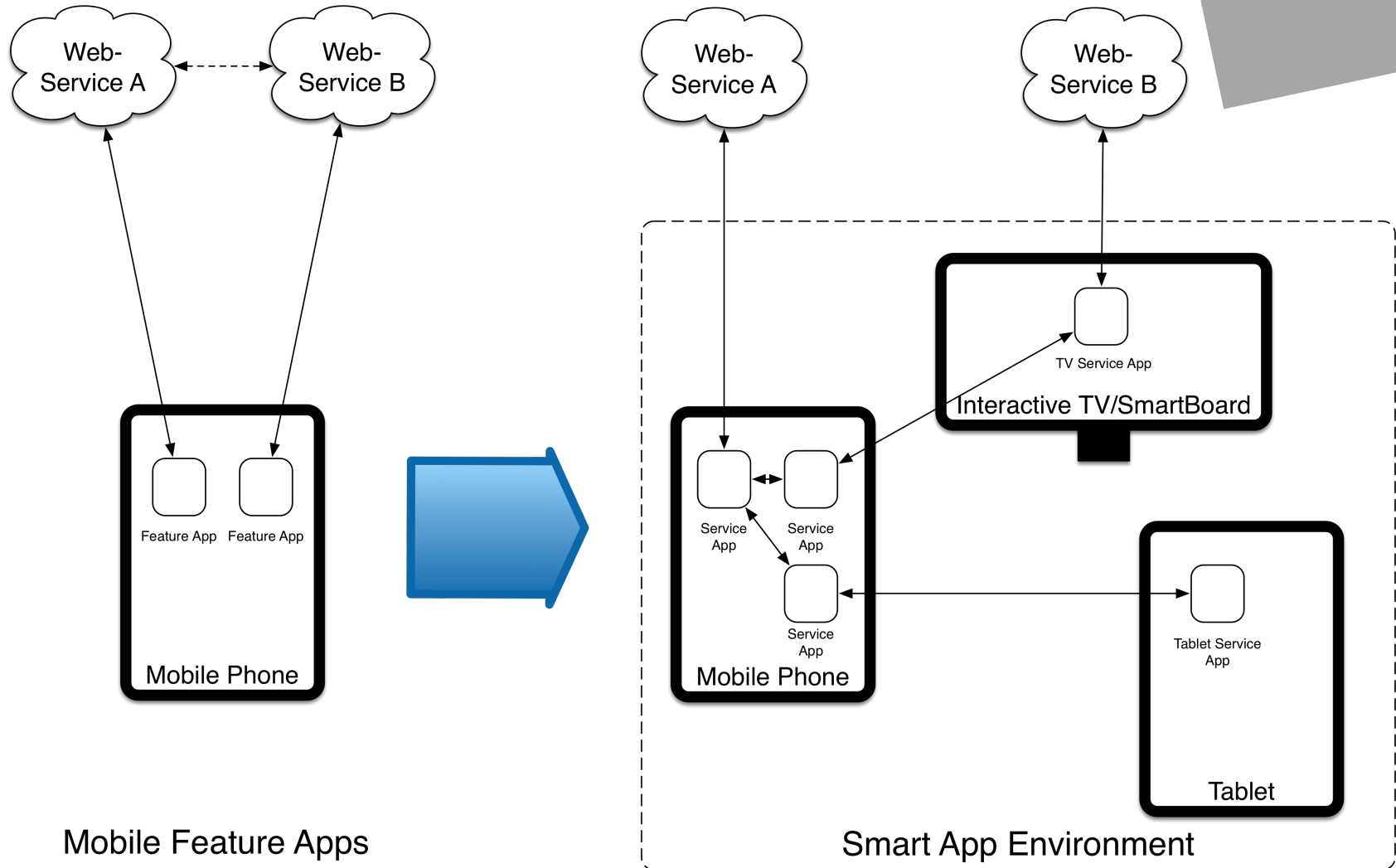
# The "Cloud" from a Device Perspective

Identities == Humans  
Identities != Devices



# The "Cloud" from a User Perspective

# Shifting from Feature Services to Functional Environments



**Our Challenge**

**How to connect this diversity  
to the  
academic infrastructure?**

# Many Attempts for Native Mobile Apps

- Anonymous
- Shared passwords and tags
- Location-based
- Personal PIN
- Alternative Passwords and usernames
- Separate authentication
- Accounts with commercial providers

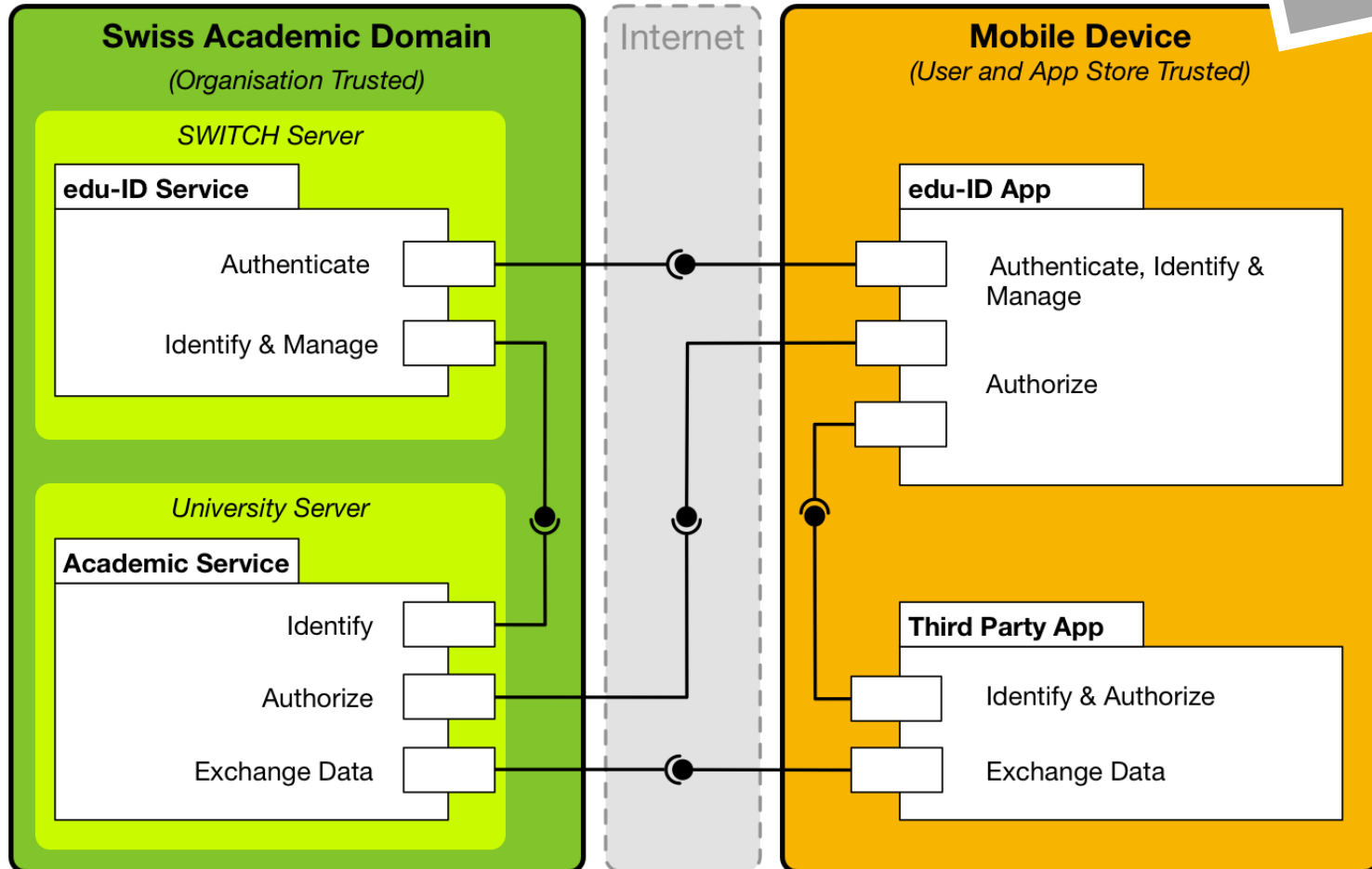
**Punch-holing every Security Strategy**





# **Non-standard Authorization hampers Innovation at the National Scale**

# Authorization is about *Trust*



# Swiss Academic Domain (Organisation Trusted)

# Internet

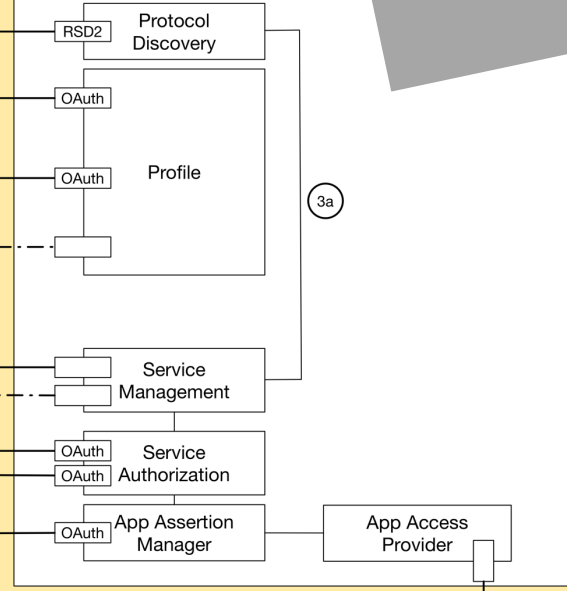
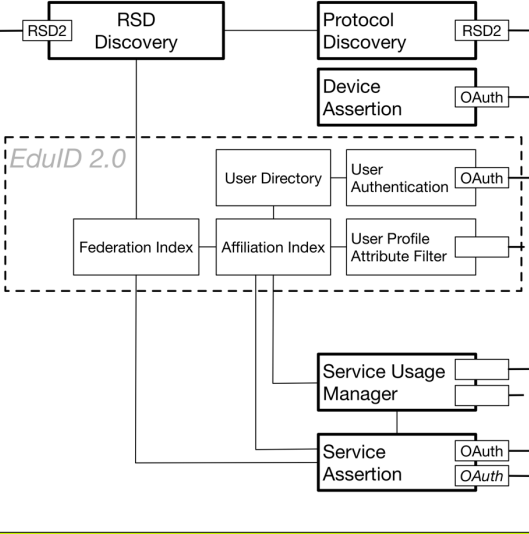
# Mobile Device (User and App State)

## SWITCH Server (OAuth Authorization Server)

## OAuth Confidential

### EDUID Service

### EDUID App

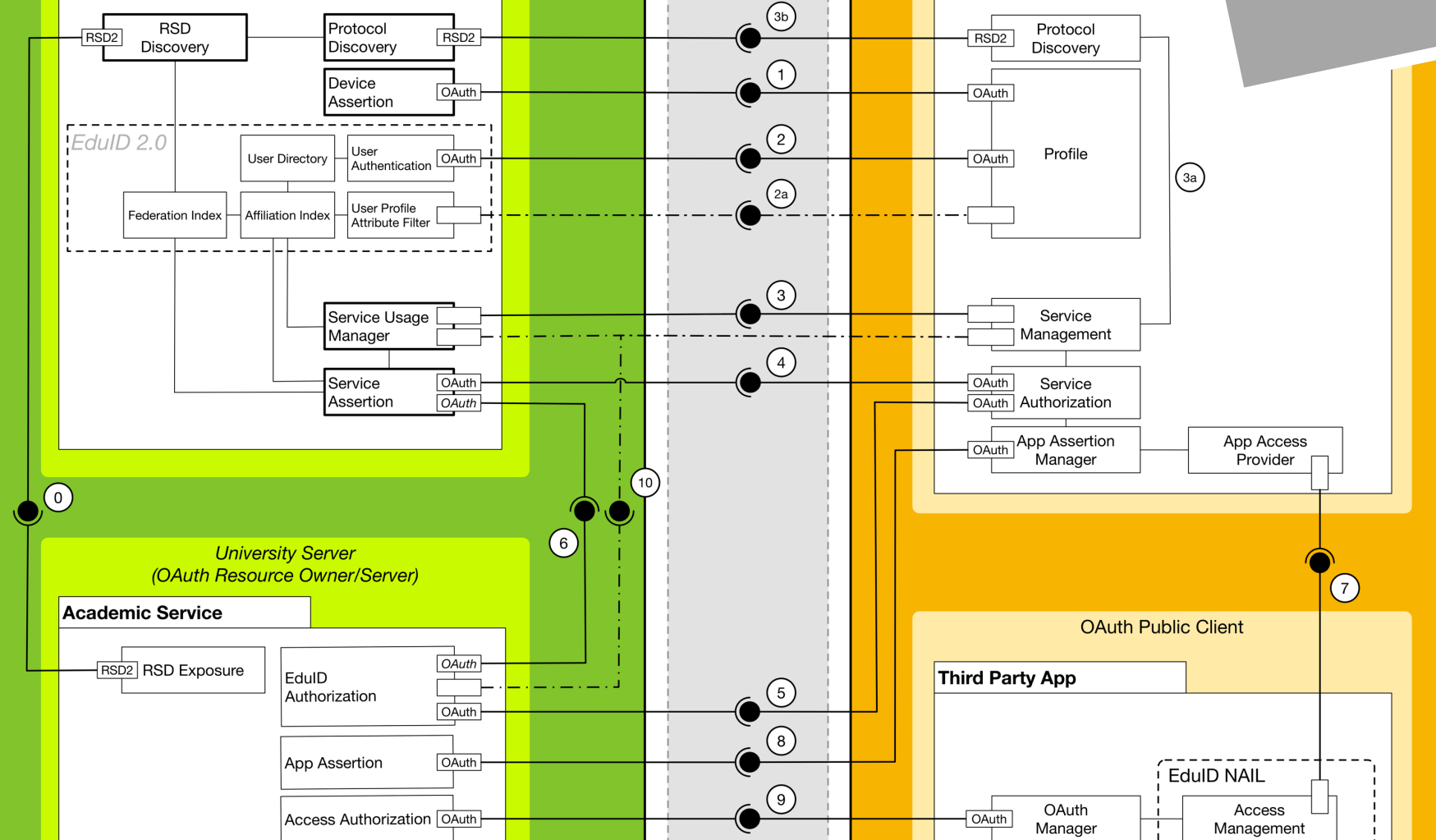
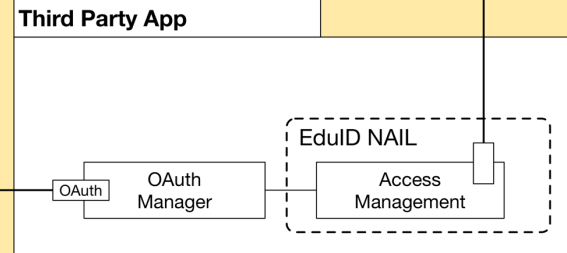
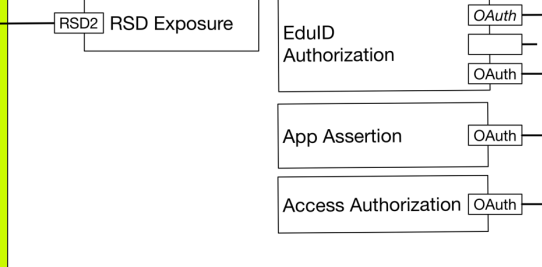


## University Server (OAuth Resource Owner/Server)

## OAuth Public Client

### Academic Service

### Third Party App



# Swiss Academic Domain (Organisation Trusted)

Internet

# Mobile D (User and App St

SWITCH Server  
(OAuth Authorization Server)

OAuth Confident

EDUID Service

EDUID App

All Standards, No Black Magic

OAuth2  
+JWT + RSD2

Because SAML is  
too narrowly minded

RSD2 RSD Discovery

RSD2 Protocol Discovery

EduID 2.0

User Directory

User Authn

Federation Index

Affiliation Index

User Attr

Se

M

Assertion

RSD2

App Access Provider

0

10

University Server  
(OAuth Resource Owner/Server)

Academic Service

lic Client

RSD2 RSD Exposure

EduID Authorization

App Assertion

Access Authorization OAuth

6

9

7

EduID NAIL

OAuth Manager

Access Management



# How does it feel for our users?

Username  
Password

Login Secure Authorize

Username  
Password

Login Secure Authorize

More

EduID Anmeldung More

Cancel

TEST moodle @ HTW Chur  
1234  
<https://mdl-tst.htwchur.ch/>

Swiss EduID

cgl@htwchur.ch  
.....

Login

1 2 3 4 5 6 7 8 9 0  
- / : ; ( ) \$ & @ "  
# \* . , ? ! ' <>  
ABC space return

Done My Services More

TEST moodle @ HTW Chur

**Less Clicks  
Extensible Security**



# How does it feel for App Developers?

# E.G., On iOS

```
- (IBAction)authorButtonPressed:(id)sender
{
    AppDelegate *main = (AppDelegate*)[[UIApplication sharedApplication] delegate];

    nail = [[IdNativeAppIntegrationLayer alloc] init];
    [main setNail:nail];

    NSArray *protocols = @[@"gov.adlnet.xapi", @"powertla.content.courselist"];

    [nail requestProtocols:protocols forObject:self withSelector:@selector(idExtensionCompleted)];
}

- (void) idExtensionCompleted {
    NSLog(@"ID Extension Completed");
    if ([[nail serviceNames] count]) {
        // continue with authorized requests

        // handover to the authorization list
        [self performSegueWithIdentifier:@"toAuthorizationList" sender:self];
    }
}
```

**Less Code  
Multi-Trust Capable**



# Follow the Development Get Involved

- Moodle Plugin:
  - [https://github.com/BLC-HTWChur/moodle\\_eduid](https://github.com/BLC-HTWChur/moodle_eduid)
- Architecture:
  - <https://github.com/BLC-HTWChur/Mobile-EduID-Architecture>
  - <https://github.com/BLC-HTWChur/rsd2-specification>
- iOS App:
  - <https://github.com/BLC-HTWChur/eduid-app-ios>
- Android App follows soon

**All Open Source**

# The Project Team

- HTW Chur
- USI
- FHNW
- *In Cooperation with SWITCH*



**HTW Chur**

**Christian Glahn**  
**Blended Learning Center**

@phish108 @htwblc



# NATIONAL LICENCES: ACCESS FOR PRIVATE INDIVIDUALS VIA SWISS EDU-ID

CONSORTIUM OF SWISS ACADEMIC LIBRARIES & SWISSBIB

**Presentation „AAI & Swiss edu-ID Update Event”, University of Berne**  
Robin Meyer, Lionel Walter

# What are National Licences?

- Purchase of eJournals backfiles (up to 2015)
- For the scientific community in Switzerland
- Funded by SUC-P2 ( **swissuniversities** )
- 7.6 Mio. CHF for products, 2.57 Mio CHF for long-term archiving and infrastructure

**Steering Committee Consortium**  
Patron: Konferenz der Universitätsbibliotheken Schweiz (KUB)  
Dr. W. Lochbühler (director main library University Zurich)

**Project Management**  
Dr. R. Ball (director ETH-Bibliothek)  
P. Boutsiouci (head of CSAL)

**SUK P-2**  
R. Dietlicher (head of program)  
G. Schneider (deputy head of program)

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- D. Skaric (Lib4RI)

**Advisory Board**

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- K. Hillenkötter (SUB Göttingen)

**Cooperation Partners**

- SWITCH
- swissbib

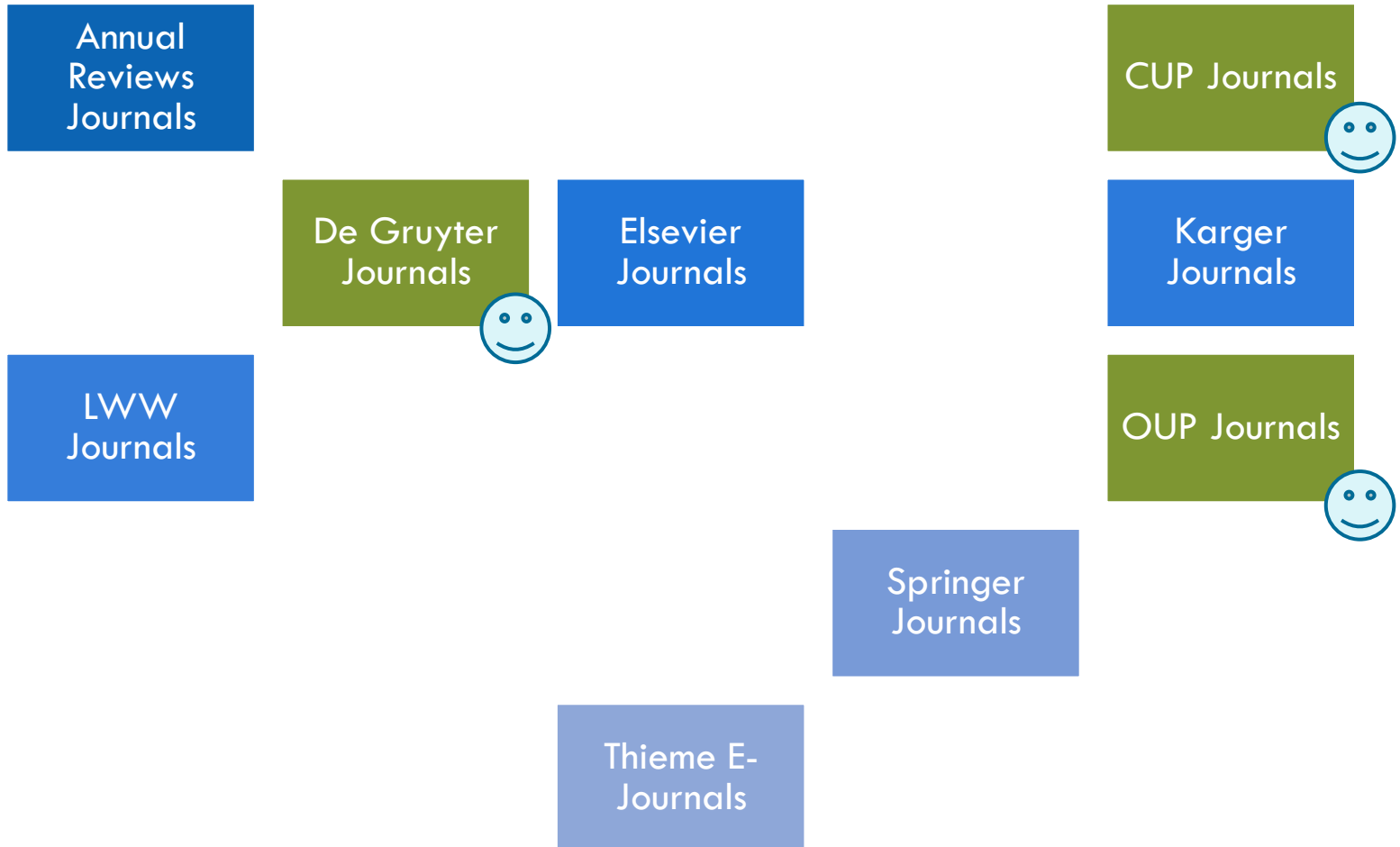
Project and evaluation team



# 23 Offer requests from 18 Publishers

Annual Reviews Journals	APA E-Books	APA Journals	CUP E-Books	CUP Journals
De Gruyter E-Books	De Gruyter Journals	Elsevier Journals	JSTOR Journals	Karger Journals
LWW Journals	Mary Ann Liebert Journals	Nature Journals	OECD iLibrary	OUP Journals
Palgrave Macmillan Journals	SAGE Journals	Springer E-Books	Springer Journals	Taylor & Francis Journals
	CRC E-Books	Thieme E-Journals	Wiley-Blackwell Journals	

# Products chosen / in negotiation





# Conditions for Private Individuals

- **Residence in Switzerland:** *Authorized Users means also scientifically interested private individuals to the requirement of permanent residence in Switzerland that have completed a suitable registration procedure.*
- **Non-Commercial:** *The Licensee is not permitted to be a commercial party.*
- **Postal Verification:** *SWITCH provides the infrastructure for the registration process of private individuals. SWITCH verifies that a private individual has a permanent residence in Switzerland by sending the registration code to the user's postal address.*
- **SMS Verification for 2 Weeks:** *In order to allow immediate access, the Publisher agrees to accept temporary access via sms authentication, verified by a Swiss mobile number. To avoid improper use, the registration via Swiss mobile number is valid one time only and expires after 10 working days.*

# Remote online services in Libraries

---

- Serving Students and Staff but also Private Users
- Remote services always more important (for private users as well)

# 3 examples

---

- Current remote services from Swiss libraries for users not affiliated to the university

Search

## E-Lending

The E-Lending service is geared towards external library customers who aren't members of ETH Zurich (students and staff) and want to borrow scientific e-books electronically.

### Holdings

More than 53,000 scientific e-books from diverse specialist fields are available. The publishing houses deGruyter, Emerald, Morgan & Claypool, Springer and World Scientific currently provide their e-books for loans. The service is to be expanded continuously.

### Service

- Borrow e-books electronically, anytime, anyplace
- Choose from more than 53,000 scientific e-books from ETH-Bibliothek's holdings
- Load complete e-books onto your preferred reader in PDF or ePub format
- Read the e-books borrowed for up to 8 days

### Registration

The use of this service requires a one-off registration and a residence in Switzerland.

Please register on [libraries.ch](https://libraries.ch).

### Usage

Detailed information on the usage and technical requirements is provided in the [instructions](#).

# Authentication

- Shibboleth : Using the specific Identity Provider libraries.ch
- Credentials provided upon request
- Rule : need to be registered in the NEBIS Library Network (aleph)

Dienstleistungen

# Universitätsbibliothek

UB Recherche Service Teilbibliotheken Über uns

< Recherche

## Datenbankzugang für Kund/innen aus dem Kanton Bern

### Anmelden

Via EZproxy wird eingeschriebenen Kundinnen und Kunden, welche im Kanton Bern wohnhaft sind, der Zugriff auf ausgewählte E-Ressourcen der Universitätsbibliothek ermöglicht. Alle anderen lizenzierten Datenbanken sowie E-Journals sind nur über das Rechnernetz der Universität Bern zugänglich. Kommen Sie doch in einer unserer grösseren [Bibliotheken](#) vorbei, falls die von Ihnen gesuchte [Datenbank](#) nicht via EZproxy zugänglich sein sollte.



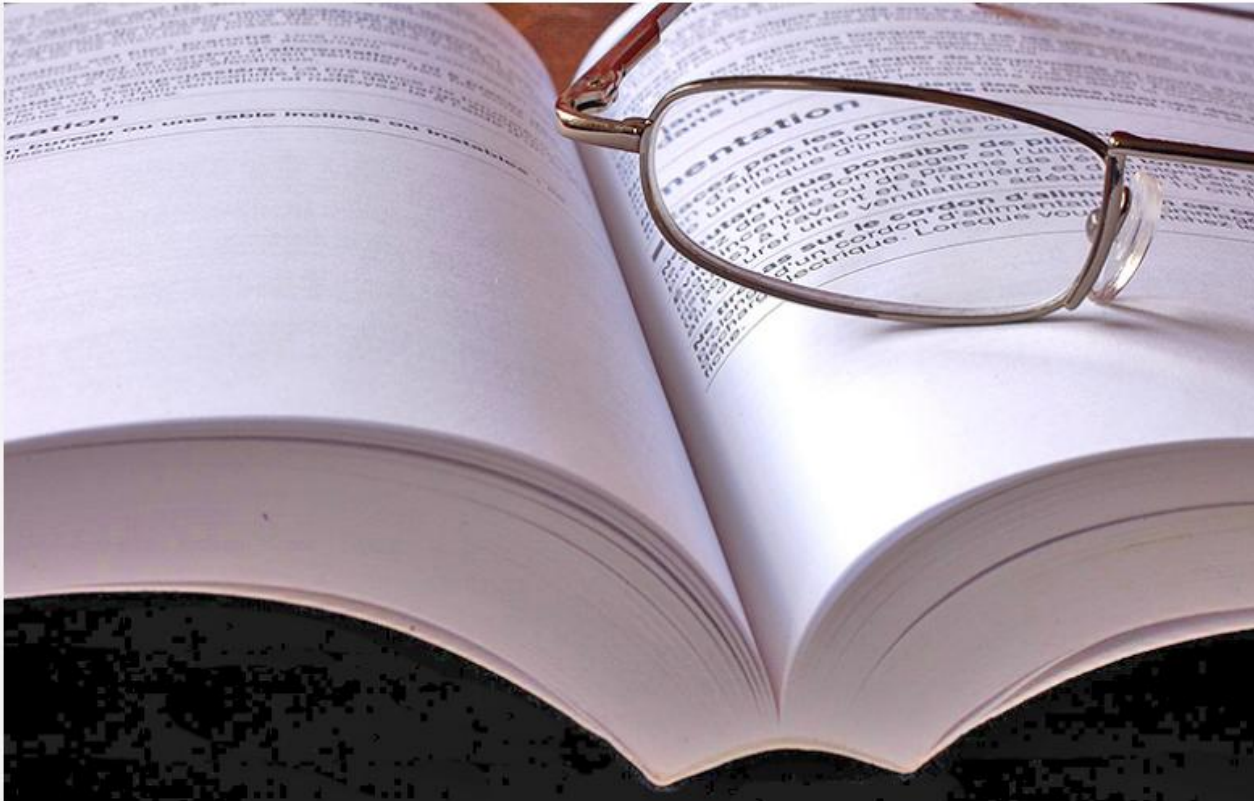
# Authentication

---

- Via a proxy server
- Login using credentials from library system
- Restricted to people living in the Bern state



BENEFITS DIRECTORY CHAPTERS CAREER COMPANIES START-UPS MENTORING STUDENTS



- + FREQUENTLY ASKED QUESTIONS
- P UPDATE MY CONTACT INFO
- N SIGN UP FOR THE EPFL ALUMNI NEWSLETTER

## REMOTE ACCESS TO EPFL'S LIBRARY

For contributing Alumni (Alumni who pay a yearly membership fee of 100 chf) it is possible to access some of EPFL's library resources **remotely** through a **proxy connexion**. If you are interested, please send as an email at [alumni@epfl.ch](mailto:alumni@epfl.ch) with a scanned copy of your passport or ID. We will create a profile for you so you can benefit from this service.

# Authentication

---

- Via a proxy server
- Using EPFL standard Identity Provider
- Restricted to EPFL alumni

# Other Projects

---

- Zentral- und Hochschulbibliothek Luzern
- Zentralbibliothek Zürich
- ???

# National Licences Requirements

- Needs to work for the whole Switzerland
- Access should be granted immediately to authorized persons (no need to go to a library, to wait for a letter, ...)
- Authentication should be possible directly on publisher's platform (no proxy) using SAML/Shibboleth
- The process should be as automated as possible

# Easy solution : Swiss IP addresses

---

- Rejected by the publishers



# Swiss edu-ID

---

- Provides all Shibboleth mechanisms needed
- Provides verification of mobile phone number
- Will provide verification of postal address (September 2016)
- Provides a registration process open to everybody, with no delay

# Swiss edu-ID

---

- Doesn't restrict registration to swiss residents
- Doesn't want to implement the National Licences specific logic

# Requirement for publishers

---

- Support the SAML attribute *eduPersonEntitlement* and its value *urn:mace:dir:entitlement:common-lib-terms*

# How does it work ?

---

- For registered users

## Publisher's platform





All Journal Articles and Book Content

Search

Quick Search

Advanced Search

# Modern Asian Studies



Welcome to Konsortium der Schweizer Hochschulbibliotheken

Home > Modern Asian Studies > Volume 47 > Issue 01 > The Phantom Wahhabi: Liberalism and the Muslim fanatic in mid-Victorian India



## Modern Asian Studies

WWZ Bibliothek, \* DUPLICATE DO NOT

New Content Alerts

Journal Widget



Modern Asian Studies / Volume 47 / Issue 01 / January 2013, pp 22-52

Cambridge University Press 2012

10.1017/S0026749X12000649 (About DOI), Published 2012

About Widget

No access !!!

Register for an Account

Table of Contents - January 2013 - Volume 47, Issue 01

Author Index



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JOURNAL MENU

ARTICLE MENU

### Options

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Metrics

Citation Alert

Save This Article to My CJO Account

### Research Article

## The Phantom Wahhabi: Liberalism and the Muslim fanatic in mid-Victorian India \*

JULIA STEPHENS

Department of History, Harvard University Email: [jasteph@fas.harvard.edu](mailto:jasteph@fas.harvard.edu)

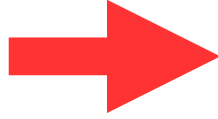
### Abstract

In the late 1860s and early 1870s the British colonial government in India suppressed an imagined Wahhabi conspiracy, which it portrayed as a profound threat to imperial security. The detention and trial of Amir and Hashmadad Khan—popularly known as the Great Wahhabi Case—was the most controversial of a series of public trials of suspected Wahhabis. The government justified extra-judicial arrests and detentions as being crucial to protect the empire from anti-colonial rebels inspired by fanatical religious beliefs. The government's case against the Khan brothers, however, was exceptionally weak. Their ongoing detention sparked a sustained public debate



**Publisher's  
platform**

**Swiss  
edu-ID**



# Swiss edu-ID Login

Log in to **Cambridge University Press**:

Provides online publishing worldwide for peer reviewed academic journals and also supports the provision of titles from other publishers

- > [Forgot your password?](#)
- > [Need Help?](#)
- > [Edit personal data](#)
- > [Change your password](#)

## Login

E-mail:

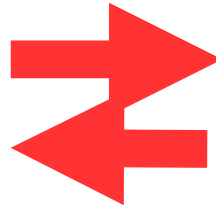
Use any e-mail address associated with your Swiss edu-ID.

Password:

Clear data release consent for this service

## Publisher's platform

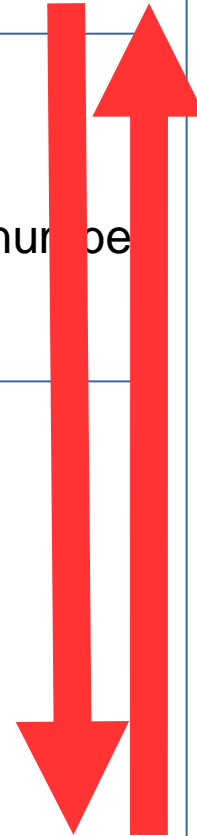
## Swiss edu-ID



**Common  
-lib-  
terms**

### SAML mechanisms

User name  
Password  
Address  
Mobile phone number  
...



National-Licence  
compliant Flag :

**YES**



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Search

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# Modern Asian Studies



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WWZ Bibliothek, \* DUPLICATE DO NOT USE

...

Register for an Account



f Like 0 G+1 0

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JOURNAL INFORMATION



JOURNAL MENU



ARTICLE MENU



## Options

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Home > Modern Asian Studies > Volume 47 > Issue 01 > The Phantom Wahhabi: Liberalism and the Muslim fanatic in mid-Victorian India

## Modern Asian Studies

Modern Asian Studies / Volume 47 / Issue 01 / January 2013, pp 22-52

Issue 01 / January 2012

DOI: 10.1017/S0022278X12000649 (About DOI), Published

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Access Ok !

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(124 KB)[Request Permissions](#)[Previous Abstract](#)[Next Abstract](#)

## Research Article

### The Phantom Wahhabi: Liberalism and the Muslim fanatic in mid-Victorian India \*

JULIA STEPHENS

Department of History, Harvard University Email: [jasteph@fas.harvard.edu](mailto:jasteph@fas.harvard.edu)

## Abstract

In the late 1860s and early 1870s the British colonial government in India suppressed an imagined Wahhabi conspiracy, which it portrayed as a profound threat to imperial security. The detention and trial of Amir and Hashmadad Khan—popularly known as the Great Wahhabi Case—was the most controversial of a series of public trials of suspected Wahhabis. The government justified extra-judicial arrests and detentions as being crucial to protect the empire from anti-colonial rebels inspired by fanatical religious beliefs. The government's case against the Khan brothers, however, was exceptionally weak. Their ongoing detention sparked a sustained public debate about the balance between executive authority and the rule of law in governance and is completely published in

# How does it work ?

---

- For the registration

✕ 🔍 [Advanced search](#)

/ [Search: open babel](#)

## 🔍 Results

Showing 1 - 20 of 52

Page: ◀ **1 of 3** ▶

Results per page

20

Sort by

Relevance



### Open Babel: An open chemical toolbox

**Authors/Contributors:** Hutchison, Geoffrey R; Vandermeersch, Tim; Banck, Michael; O'Boyle, Noel M; Morley, Chris; James, Craig A

**Published in:**

[Journal of Cheminformatics](#)

**Source:** [Swiss National Licences](#)

**Format:** [Journal Article](#)

[📄 get it](#)

[📄 Register for an access as a Swiss Resident](#)

#### Refine search

Available online

##### Library network ▲

Informationsverbund Deutschschweiz 49

NEBIS 41

IDS Basel Bern 23

**Swiss National Licences 9**

RERO Réseau Romand 9

IDS St. Gallen 5

[» more ...](#)

##### Authors/Contributors ▲

Barker, Adele Marie 2

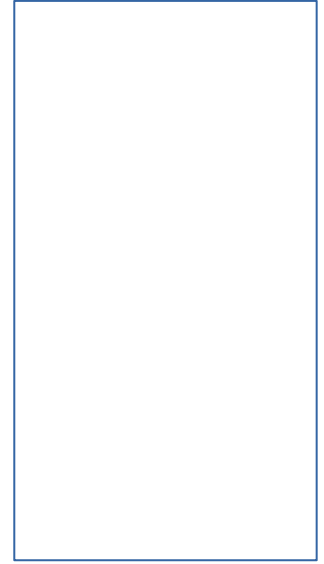
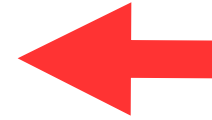
Abel, Andrew B. 1

Akker, Wiljan van den 1



**Swiss  
edu-ID**

**Registration  
service**




# Registration

# SWITCH

[Login](#) | [About](#) | [Help](#) | [Terms of Use](#)

▶▶▶▶ **1 Account Creation** — **2 E-mail Verification** — **3 Account Activation** ▶▶▶▶

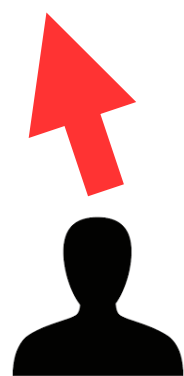
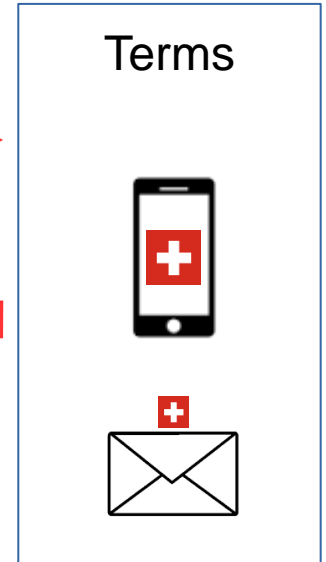
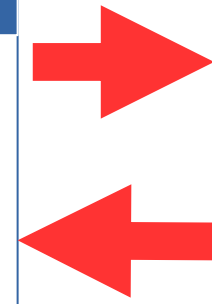
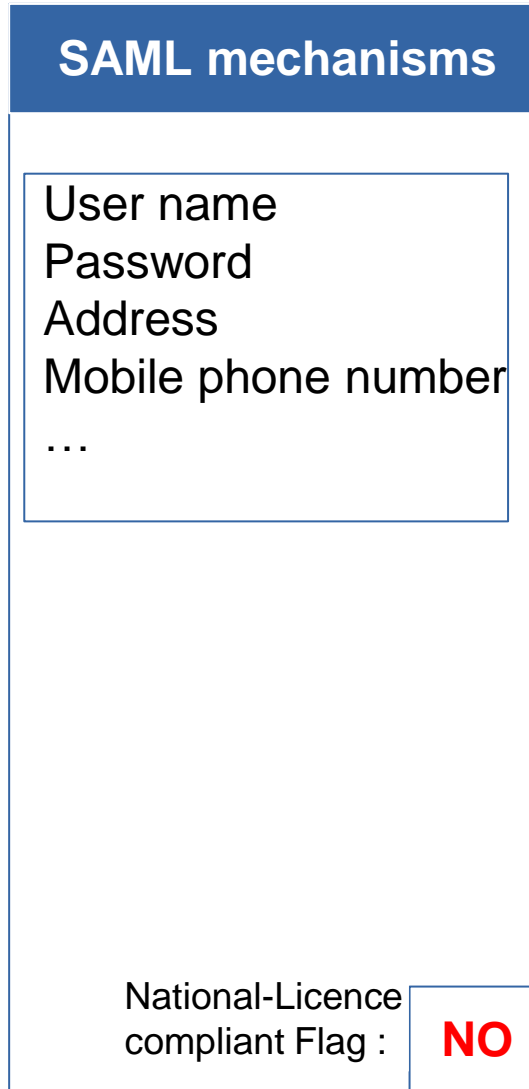
Please complete the following form to create a new Swiss edu-ID account.

Authentication Data	
E-mail Address	<input type="text" value="john.doe@example.org"/>
Password	<input type="password"/>
Confirm Password	<input type="password"/>
How much is: 	<input type="text"/>
Personal Data	
First Name	<input type="text" value="John"/>
Last Name	<input type="text" value="Doe"/>
<p><b>I fully understand and accept the <a href="#">Terms of Use</a> for creating and using a Swiss edu-ID account.</b> <input type="checkbox"/></p> <p>The Terms of Use will also be sent to you by e-mail when your account has been successfully created.</p>	
<input type="button" value="Create Swiss edu-ID account"/>	



## Swiss edu-ID

## Registration service



## Access to National Licences Content

### Temporary access

Temporary access can only be requested once and is valid for 14 days

- You have a swiss mobile phone number in your Swiss edu-ID account

[Activate my temporary access](#)

### Permanent access

- You have a postal address in Switzerland
- The address hasn't been verified yet. [Verify](#) your address in your Swiss edu-ID account

### Terms and conditions

- Accept [terms and conditions](#) for the Swiss National Licences

Currently, you don't have access to National Licences Content.

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Saved searches	<a href="#">Q</a>
Preferences	<a href="#">P</a>
National Licences	
Log out	<a href="#">L</a>
Lists	
All lists	<a href="#">≡</a>
Create a list	<a href="#">+</a>

### My swissbib

- » [My libraries](#)
- » [Lists](#)
- » [Preferences](#)

### Search Options

- » [Advanced search](#)
- » [Previous searches](#)

### Information

- » [Search Tips](#)
- » [About swissbib](#)
- » [Feedback](#)

## Swiss edu-ID

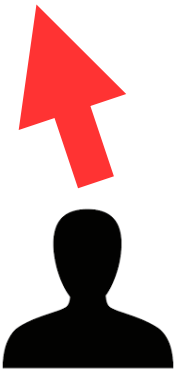
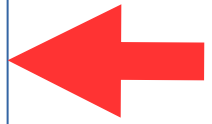
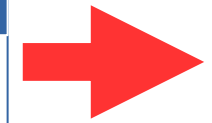


## Registration service

**SAML mechanisms**

User name  
Password  
Address  
Mobile phone number  
...

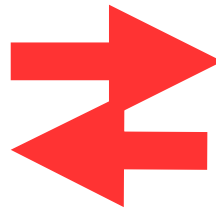
National-Licence  
compliant Flag : **YES**

Terms





## Publisher's platform



**Common  
-lib-  
terms**

## Swiss edu-ID

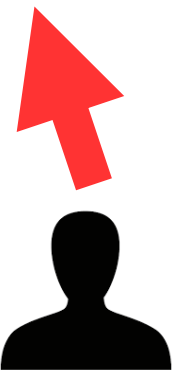
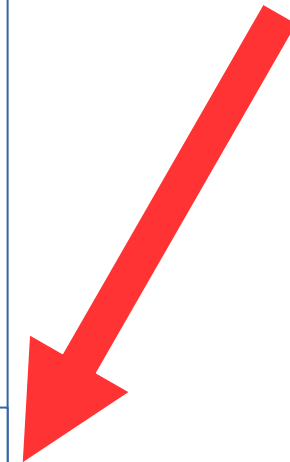
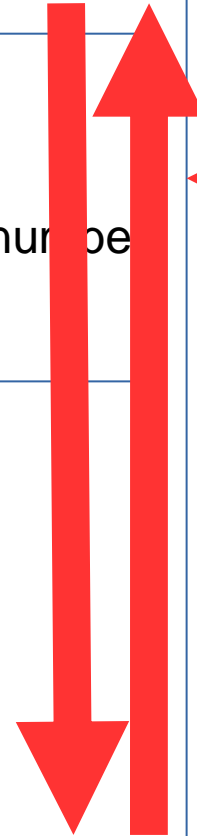
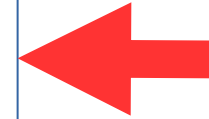
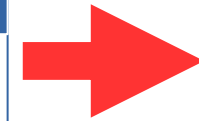


**SAML mechanisms**

User name  
Password  
Address  
Mobile phone number  
...

National-Licence  
compliant Flag : **YES**

## Registration service

Terms



# Main advantages

---

- Requirements satisfied
- No need to maintain an Identity Provider
- No need to maintain a Proxy
- Most of what we need is done by Switch

# Main disadvantages

- Put some requirements on the publisher's platform
- Login on the publisher's platform not really intuitive
- Need to develop a registration service for the specific logic

# Current status

- Schedules for development on the side of the publisher's, Swiss edu-ID and Swissbib
- Planned Switch to Production : November 15th 2016.



Questions?

# Thank you for your attention!

---

visit us at [www.nationallicences.ch](http://www.nationallicences.ch)

Robin Meyer, [robin.meyer@library.ethz.ch](mailto:robin.meyer@library.ethz.ch)

Lionel Walter, [lionel.walter@unibas.ch](mailto:lionel.walter@unibas.ch)

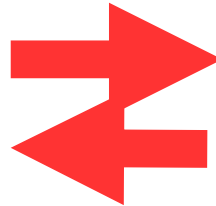
# Scale to other use

---

- Cantonal Libraries ?



## Publisher's platform



**Common  
-lib-  
terms**

## Swiss edu-ID

### SAML mechanisms

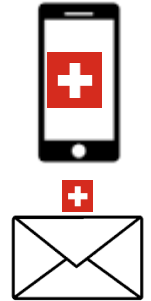
User name  
Password  
Address  
Mobile phone number  
...

National-Licence  
compliant Flag : **YES**

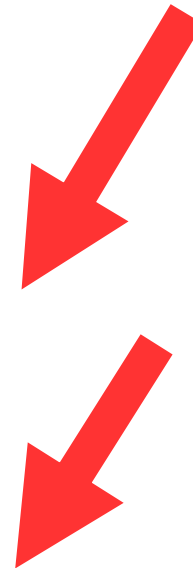
Geneva-Licence  
compliant Flag : **YES**

## Registration service

Terms



Terms





# The Swiss Library Service Platform project Introduction and possible cooperation with Swiss edu-ID

Basil Marti  
University of Basel

Presentation at the AAI & Swiss edu-ID Update 2016

## Swiss Library Service Platform (SLSP) - Vision

SLSP will operate a centrally administrated library management system. On the basis of this system, it will offer standardised services to Swiss academic libraries and to introduce common rules and standards.

### Possibilities for

- New, innovative services
- Uniform conditions for library users in Switzerland
- Cost savings through centralisation

## SLSP – The Project

- Initiated by the ETH library together with several other Swiss university libraries
- Funded partly by SUC P-2
- Concept phase until the end of 2016
- <https://blogs.ethz.ch/slsp/>

# SLSP project partners and collaborators



Universität  
Zürich<sup>UZH</sup>



IDS

Informationsverbund Deutschschweiz

u<sup>b</sup>

UNIVERSITÄT  
BERN

UNI  
FR

UNIVERSITÉ DE FRIBOURG  
UNIVERSITÄT FREIBURG



ÉCOLE POLYTECHNIQUE  
FÉDÉRALE DE LAUSANNE

Zürcher Hochschule  
für Angewandte Wissenschaften

Z

hdk

Unil

UNIL | Université de Lausanne

ZB



Zentralbibliothek  
Zürich



UNIVERSITÉ  
DE GENÈVE

Universitätsbibliothek Basel

zhaw

## Project organisation

Three major sub-projects:

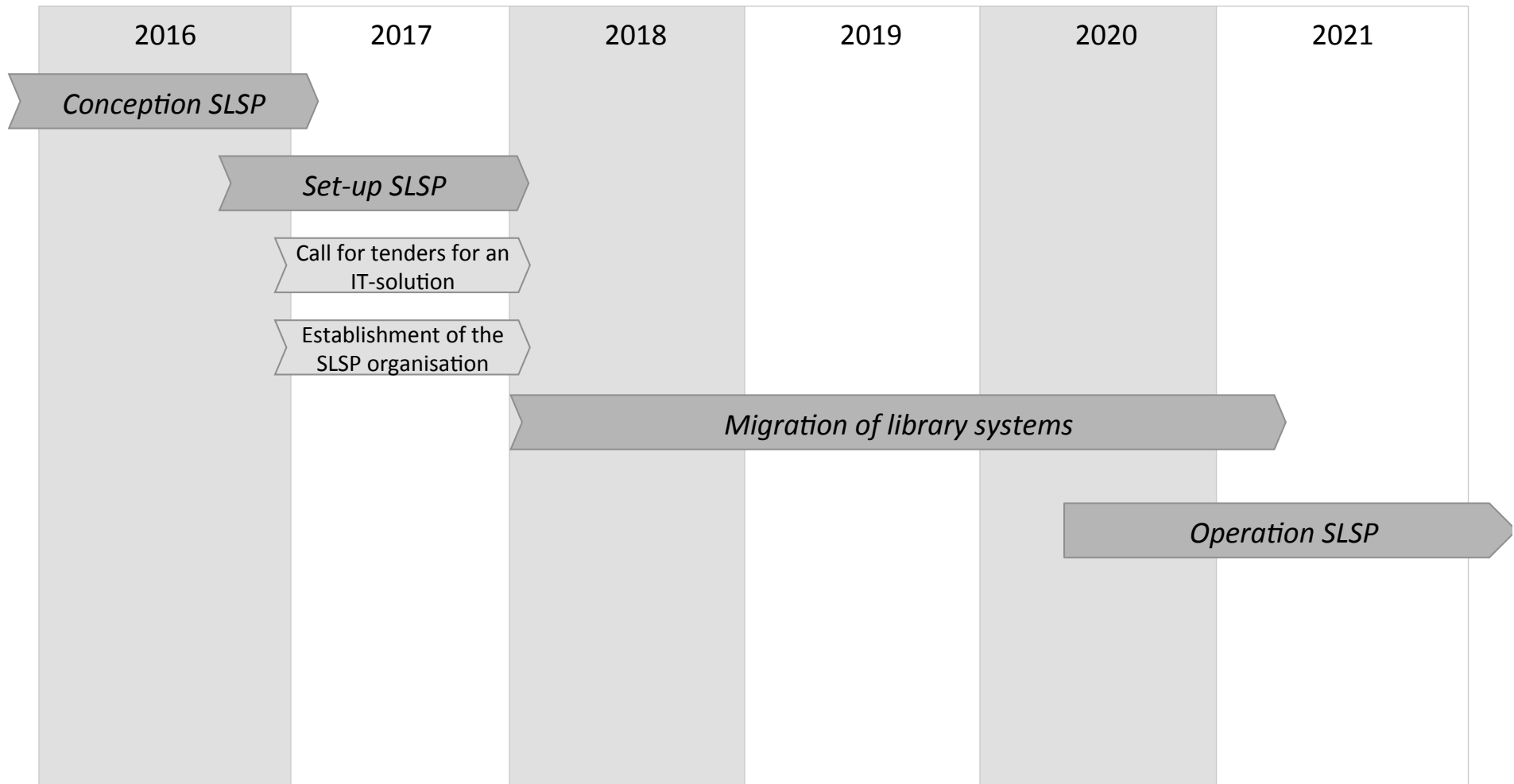
- SP 1: Services and business model
- SP 2: Organisation and governance
- SP 3: Processes and requirements for an IT-solution

## Accomplishments so far

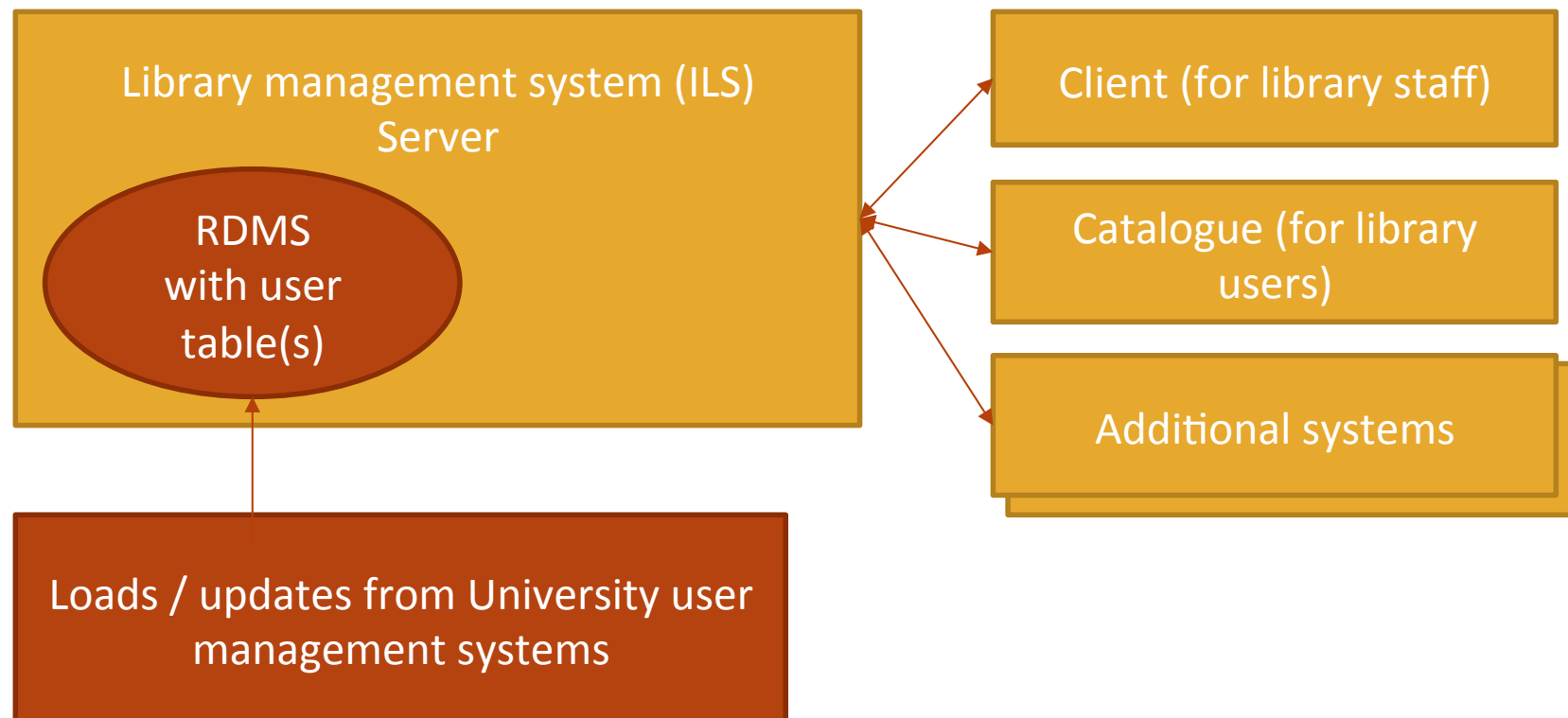
- Definition of important boundary constraints
  - Who will be the shareholders/owners of the SLSP organisation?
  - How much centralisation is possible/desirable
- Who can be a SLSP customer?
- Organisation and governance
- What will the service portfolio of SLSP consist of?
- IT-requirements for a new library management system



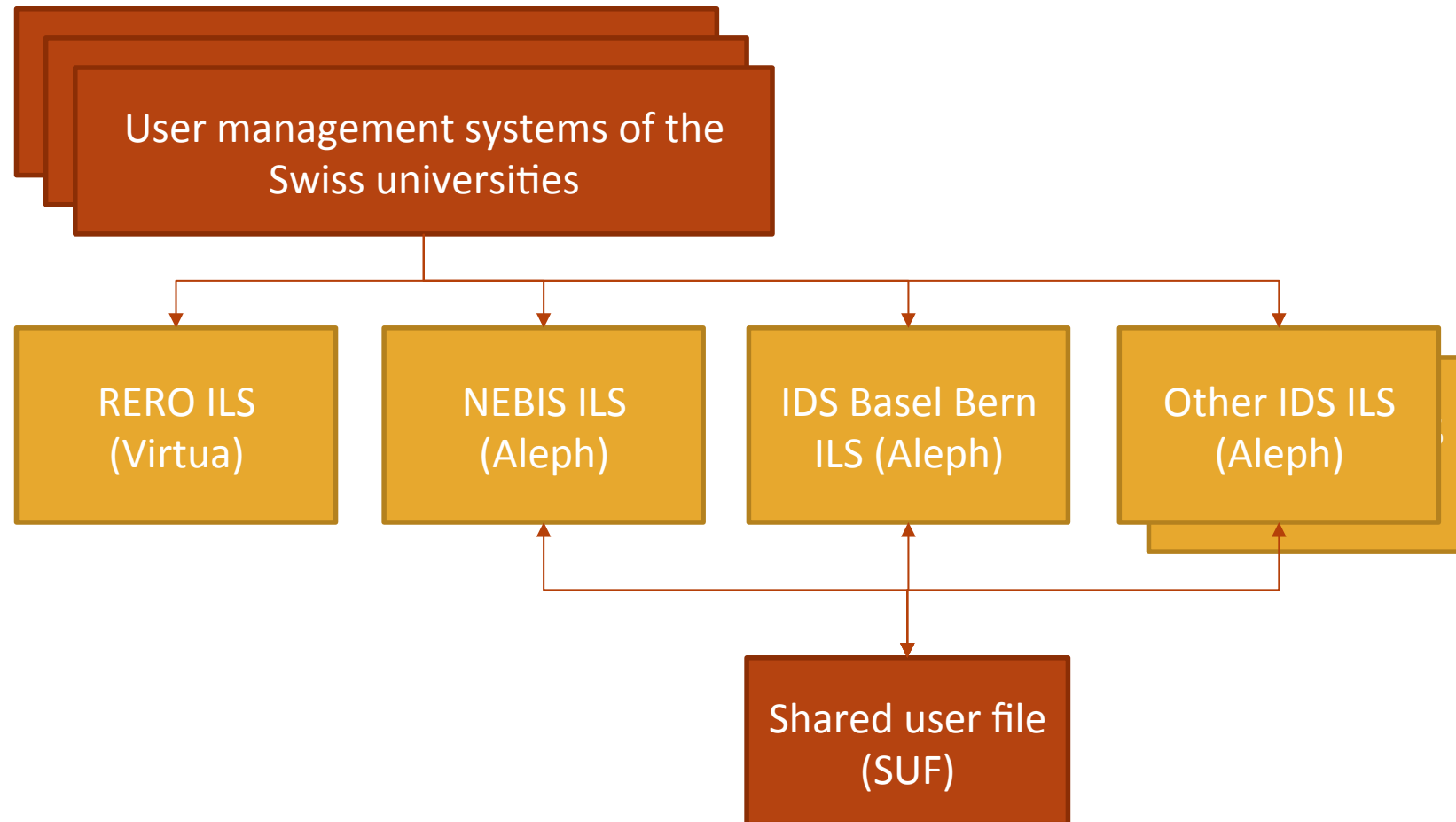
# Project planning



# Current situation (single library system)



# Current situation (whole of Switzerland)



## SLSP objectives for user management

- One single user file for all users of Swiss academic libraries
- Problems:
  - Many different sources for users (existing user databases, user management systems of the universities, new users)
  - Deduplication of user data
  - Interfaces to several external systems

## Swiss edu-ID for SLSP

- One single source for users
- Deduplication of users is already done
- User data is imported/updated (after user assent) into the library user file. Library-specific information (number of active loans) are stored inside the library system and not in Swiss edu-ID

## SLSP requirements for Swiss edu-ID

- We (still) have users without e-mail addresses
- Offers solutions for guest users who are not or not anymore members of an university -> important for libraries
- International users (users from neighbouring areas outside Switzerland, visiting researchers)
- User validation is important -> you have to visit the library before we send books or copies to a unverified address.

## Challenges

- Different way to work with user data:
  - Batch loads vs. on-the-fly update (technical challenge for new library system)
  - Import without user assent vs. user-centric system
  - Non-library specific user information (name, address, password) will be managed in an external system
- What to do with the old user files?
  - We can't just import it into Swiss edu-ID (no user assent, will produce lots of duplicates)
  - On the other hand we would like to continue to use old logins and user cards.



# Swiss edu-ID Adoption



SWITCH

Rolf Brugger  
rolf.brugger@switch.ch

# Dependencies

- Four partially dependent adoption dimensions

1. Adoption of the users



2. Adapting / extending services (AM)

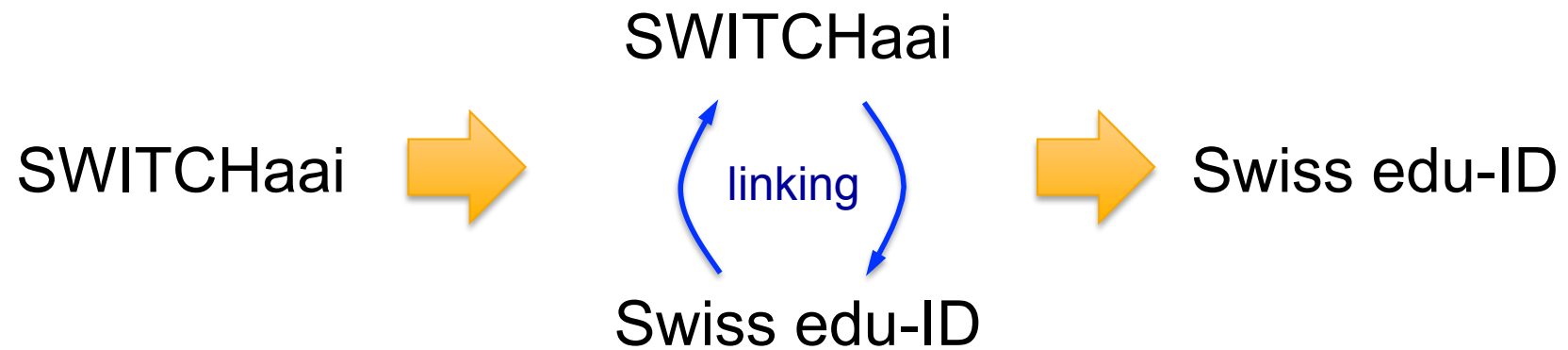


3. Migrating / integrating organisations (IdM)



4. Developing the Swiss edu-ID (central IdP, directory, UI, ...) SWITCH

# User Adoption



# SP Opportunities



Opportunities	Jul '15	Dec '16	2017 -20
Extend user group (alumni, guests, ...)	✓	✓	✓
New attributes (edu-ID unique ID, ORCID)	✓	✓	✓
Get more attribute information (extended model)		✓	✓
Get user profile change notifications		✓	✓
Share attribute/group information with other SPs		✓	✓
AM protocols for national services (OIDC, AD, LDAP)		✓	✓
Support migrating users AAI->edu-ID			✓
Concurrently serve AAI and Swiss edu-ID Users			✓
Full coverage (all org members have an edu-ID)			✓*
Access to former affiliations			✓*

\* Only for users of 'migrated' organisations

# Organisation Integration Depth



Level	Tasks	Benefits	Jul '15	Dec '16	2017 -20
linked	<ul style="list-style-type: none"> <li>• “nothing”!</li> <li>• Communication measures</li> </ul>	naked Swiss edu-ID	✓	✓	✓
		edu-ID with affiliations and assurance levels		✓	✓
migrated	<ul style="list-style-type: none"> <li>• Migrate all users to edu-ID</li> <li>• Manage Swiss edu-ID identifier in internal directory</li> <li>• Operate attribute provider</li> </ul>	<ul style="list-style-type: none"> <li>• No local SAML-IdP required anymore</li> <li>• More efficient user identity initialization</li> <li>• Access to SPs with new Protocols</li> <li>• New Auth methods</li> </ul>			✓
integrated	<ul style="list-style-type: none"> <li>• Receive and process IdM updates from Swiss edu-ID</li> <li>• Notify Swiss edu-ID of IdM updates</li> </ul>	<ul style="list-style-type: none"> <li>• Streamlined IdM processes</li> <li>• up-to-date identities                             <ul style="list-style-type: none"> <li>- locally</li> <li>- in entire community</li> </ul> </li> </ul>			✓

# Swiss edu-ID Development Phases

Swiss edu-ID functionality	Timeframe
<ul style="list-style-type: none"> <li>• User centric identity, self-serviced</li> </ul>	- Jul 2015
<ul style="list-style-type: none"> <li>• Support for current affiliations               <ul style="list-style-type: none"> <li>• Get affiliation information through SAML attribute query</li> <li>• Swiss edu-ID IdP provides extended attribute model to services</li> </ul> </li> <li>• Shared attribute management</li> <li>• SP notifications</li> </ul>	- Dec 2016
<ul style="list-style-type: none"> <li>• Swiss edu-ID IdP provides classic model with affiliation chooser</li> <li>• Organisational Shib-IdP is replaced by attribute provider               <ul style="list-style-type: none"> <li>• “direct” access to affiliation information in org-directory</li> <li>• all organisation members are migrated to Swiss edu-ID</li> </ul> </li> <li>• Org-IdM and edu-ID-IdM processes are connected</li> <li>• Support for former affiliations</li> <li>• New AM protocols (OIDC)</li> </ul>	2017-2020

# Swiss edu-ID 2017-2020

Outlook and follow-up projects

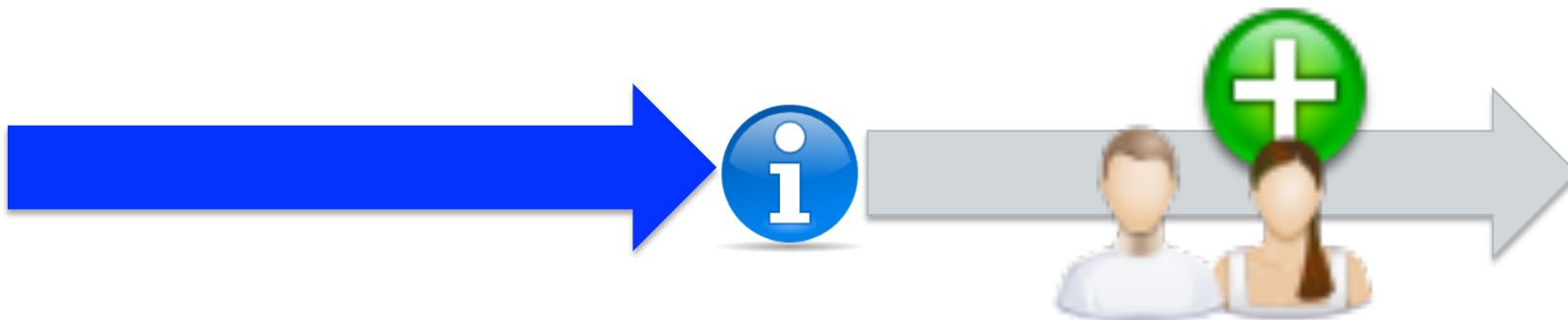


# SWITCH

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# Agenda

- What have we achieved so far, and for whom?
- What are we working on now, and for whom?
- What has changed, and why?
- What comes next, and when?
- What's in for me, and how to join?





# What have we achieved so far... ...and for whom?

For services (“national services”)

- ALL users, one method
- Self-registration
- SWITCHaai, Swiss edu-ID – or both



For users:

- Single one-off action for account creation and you're ready for the future



For IT departments:

- Assist registration processes
- Use of long-lived Swiss edu-ID identifier
- Control over institutional attributes (roles)



# What are we working on now... ...and for whom?

Services are (still) main beneficiaries:

- advanced features:
  - extended attribute model
  - serving non-web resources & group management functions
- specific requirements (e.g. non-SWITCHaai-compliant services)



For users:

- One identity: merge SWITCHaai and Swiss edu-ID (organisational migration to Swiss edu-ID)



For IT departments:

- Making Swiss edu-ID ready for organisational migration
- Deliver notifications



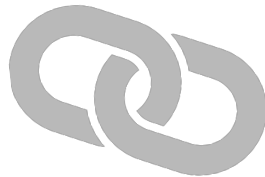
# What has changed from earlier plans... ...and why? (1/2)

*Swiss edu-ID delivers value,  
when it is being used to access services*







## Advanced features:

available with linked Swiss edu-ID identities even before users are migrated !



(small drawback: exposure to parallel identities for some users)

## Shifting priorities:

- Implementing services with advanced features 
- Organisational migration 
- Migration & IdM activities postponed (SWITCH migration mid 2017) 
- Implementation of further use cases 

# What has changed from earlier plans... ...and why? (2/2)

Choice of IdM solution → RFI in April/May 2016



Invitations: 25

Answers: 8

Workshops: 4

## General Findings:

- Only few open source products in this field (as we know)
- Licensing model per identity for commercial products
- Few Business to Customer IAM solutions
- No product covering a majority of the Swiss edu-ID use cases
- Development and integration costs considerable



## Next steps:

1. RFI report with recommendation
2. PoC or prototype with selected product



# What comes next... ...and when? (1/2)

## The current “Project Swiss edu-ID Phase II”

- Reprioritised towards services
- Extension into 2017 to finalise “classic model” and pilot migration of SWITCH

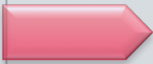
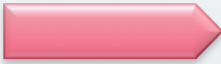
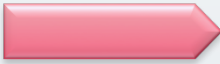
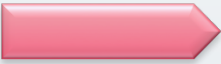










## Proposed next steps (and projects):

- Options and strategies for organisational migrations (application Aug 2016 → 2017)
- Functional extensions / accompanying measures / migration projects (early 2017 → 2018-2020)



# What comes next... ...and when? (2/2)

	2017	2018	2019	2020
Swiss edu-ID Phase II (extension)				
Migration Strategy Projects (bundles)				
Migration Projects (individual or bundles)				
Functional Extensions/ Advanced IdM Integration				
Supporting Measures				
				

# What's in for me... ...and how to contribute?

Wanted: 3-5 contributing organisations  
to study migration strategy and  
planning implementation measures  
(with the help of subsidies)

→ Handing in a joint proposal in mid-August

