Why SWITCH edu-ID

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SWITCH 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!)
SWITCH edu-ID concept corner stones (cont.)

- 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
People without SWITCHaai accounts?

Services and tools

SWITCHaai: ☓

SWITCH edu-ID: ✔
Openness: “Not anyone should have a SWITCH edu-ID”

- Having an ID implies access rights

Getting access is done by a
- explicit (identify person)
- implicit (personal attribute)
registration procedure

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

- SPs can rely on high quality attributes

attribute quality

but

Not all SPs need high quality attributes

low entrance barrier

tradeoff

Counterexample: ID / Passport

Counterexample: Github-ID
What’s in for the Universities?

- Mobile/non-web
- National licenses
- LoA/QL
- MFA
- SWITCH drive
- SLSP/Libraries?
- SDSC ?
- CH/EU eID?
- SuisseID/SwissID
- educa.ch

Migrated university
“Swiss edu-ID” vs. “SWITCH edu-ID”

• The concept “Swiss edu-ID”
  – Reflected in the architecture document and in the service description

• The identifier “Swiss edu-ID”
  – A 32 digit hexadecimal encoded number following RFC4122. Well hidden.

• 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 “SWITCH edu-ID”
  – The services “SWITCH edu-ID V1.0” and “SWITCH edu-ID V2.0” are milestones on that roadmap
Basic Components of the SWITCH edu-ID

Participants

SWITCHedu-ID Participant

Organisational IdM

Attribute Provider

Organisational Directory

IdM Provisioning Service

Affiliation Archive

Affiliation Index

Attribute Aggregator

Attribute Filter

User Directory

IdM Admin Panels

User Profile Panel

User Authentication

Federation Registry

Service Provider

Affiliation Archive

Affiliation Index

Attribute Aggregator

Attribute Filter

User Directory

IdM Admin Panels

User Profile Panel

User Authentication

Federation Registry

Service Provider

Organisational Directory

IdM Provisioning Service

SWITCHedu-ID Operator

Operator

Partners and Federation Partners
## Decision Matrix for Services

<table>
<thead>
<tr>
<th></th>
<th>One affiliation at a time ➔ classic model</th>
<th>Multiple affiliations at a time or quality info ➔ extended model</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID for university members only</td>
<td>• LMS for students and staff AAI</td>
<td>• Academic file sharing system (SWITCHdrive)</td>
</tr>
<tr>
<td>ID for university member and others</td>
<td>• LMS that should also be open for private, external people</td>
<td>• Private people accessing to research publications (National Licenses) edu-ID</td>
</tr>
</tbody>
</table>
Broader Use Cases

- **SWITCH edu-ID**
  - e.g. LMS for students, staff, external people

- **SWITCH edu-ID**
  - e.g. National Licenses

- **SWITCHaai**
  - e.g. LMS for students and staff

- **SWITCH edu-ID**
  - e.g. Academic File Sharing

Serving a wider user base

Multiple affiliations and (meta-) quality information

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Questions?