EBSI Early Adopters Wave 3 Project

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Agenda

What's EBSI?

EBSI's early adopters projects

Why is Switch participating?

EA Wave 3 «clusters»

The cluster «Educational ID»

Outcome and its relevance
Introducing EBSI

The European Blockchain Services Infrastructure (EBSI) was born in 2018 when 29 countries (all EU members states, Norway and Liechtenstein) and the EU Commission joined forces to create the European Blockchain Partnership (EBP).

The EBP’s vision is to leverage blockchain to create cross-border services for public administrations, businesses, citizens and their ecosystems to verify information and make services trustworthy.

Discover and understand EBSI by having a look at our website and visiting the FAQs.

https://ec.europa.eu/digital-building-blocks/sites/display/EBSI
Switch’s Ambition

Our Ambition
Switch edu-ID to support E-ID from day 1

Our values

International collaboration
(student mobility, EU projects etc.)

Cross-sector interoperability

National & international governance structures

Open standards, Open community & Open source
Tier B - Scenarios - Overview
From Multi-University Pilot to Life-Long Learning (OR Live, Learn and Work)

Identity
A <citizen> from a <Country A> gets access to public services in a <Country B> using national ID

• National ID

• [Student ID]

MyAcademicID for authentication purposes

A <student> from an <educational institution> in a <Country A> wants to access resources and facilities from an <educational institution> in a <Country B>.

• (Secondary Education diploma)
• Bachelor diploma
• Master diploma
• PhD diploma

Formal Accreditation and Recognition
A <student> who has completed a <formal education degree> in a <University> from a <Country A> wants to enroll for another formal <formal education degree> at a <University> from a <Country B>.

• Transcript of records (short-courses | micro-credentials)

Micro-credentials as verifiable credentials in Higher Education
A student from a <University> in a <Country A> takes a short course from a <University> in a <Country B>. Upon successful completion and verification, a <University> in a <Country A> issues a transcript of record.

• Transcript of Record

University Alliances
A student from a <University> in a <Country A> wants to take a course in a specific domain to improve her competences and skills and make sure that it is accredited by a <VET> from a <Country B>. Both Universities are part of an alliance.

• Transcript of records (short-course | vocational training certificate)

Formal accredited Vocational Education and training
A <professional> from a <Company> in a <Country A> wants to apply for a job at a <Company> in a <Country B>.

• Verifiable CV
• Certificate of Employment
• Identity
• Diploma
• License to practice

Source: EBSI
Building the foundation of ‘Educational ID’ (the Attestation)

We work together with EBSI partners University Alliances and GÉANT-eduGAIN to develop a new schema (Verifiable Credential), called Educational ID (the Attestation) for the unique digital identification of the students in Europe.

01  | 02  | 03
Collaborated  | Defined the VC  | Brought it to use
We collaborated with University Alliances and members of GÉANT – eduGAIN community  | With University Alliances and members of GÉANT – eduGAIN community, we defined the schema of Educational ID VC  | Supported EBSI Team to get Educational ID schema implemented and set GÉANT as Trust Anchor

*GÉANT is the collaboration of European National Research and Education Networks (NRENs).

https://ec.europa.eu/digital-building-blocks/sites/display/EBSI/EBSI+Ecosystem+Day+Contents
Educational ID in action

Brings a new digital form of Attestation, to shape EDUCATIONAL MOBILITY throughout EUROPE

Issuer: Universidad de Extremadura
Spain

Holder: Monica

Verifier: UBB
Romania

EBSI registered ‘GÉANT’ as Root-TAO for the «Educational ID»

https://ec.europa.eu/digital-building-blocks/sites/display/EBSI/EBSI+Ecosystem+Day+Contents
Outcomes

Visible

A student to get an “Educational ID” from a Spanish university delivered in her wallet and presents it to a university in Romania to get access

Not so visible

The «Educational ID»: aligned as much as possible with the existing eduGAIN attributes

The trust anchor for the «Educational ID»: GÉANT acts as Root-TAO (Trusted Accreditation Organisation)

It took some convincing and insisting to achieve the above…

See: https://identityblog.switch.ch/category/e-id/
Insights gained

eduGAIN has a compelling value proposition – but it is not on the agenda of many important stakeholders

We have to pass the message over and over again – or other solutions will make it in the end

I doubt that those solutions will serve us well as the stuff we already have – or it takes years to get them there

We have to defend our clients’ investment – and this has to do with protecting our service ecosystem. Foremost dealing with data and trust.
«It wasn’t just about technology; it was about building trust and collaboration infrastructure that adapts to change.»

Ken Klingenstein
Internet2 Evangelist for Trust and Identity