European Blockchain Services Infrastructure

Digital Skills Call – Info Day
What is EBSI

- European Blockchain Partnership (EU 27 + Norway, Liechtenstein, Ukraine as observer)
- Cross border public services
- Moving now to production (with pilot/pre-prod and production environments)
- Use Cases include educational credentials (diplomas) as part of a more generic Trust model to exchange verifiable credentials
EBSI and verifiable credentials

What is EBSI?

EBSI is making information easy to verify and almost impossible to fake
The EBSI digital verifiable credential model?

- **(Root) TAO**
  - Enterprise Wallet
  - Issuance of Accreditation

- **Issuer**
  - DID
  - Issuance of Verifiable Credentials
  - Set up of Issuer according to EBSI onboarding
  - DID method for Legal Persons (NP)
  - DID method for Natural Persons (NP)

- **Holder**
  - DID
  - Holder wallet
  - Presentation of Verifiable Credentials
  - DID document including Public key

- **Verifier**
  - Verify Issuer’s authenticity and accreditation status
  - Public Keys of Issuers
  - Register of Issuers
  - CRL (*)
EBSI: Get inspired

Get inspired with our 6 success stories

Since 2018, the European Commission and the European Blockchain Partnership have been building the European Blockchain Services Infrastructure (EBSI) to deliver cross-border services for public administrations. Our piloting use case, Diploma, has been elaborated and is now ready for adoption. Get inspired by our success stories.

1/6
Transcript of Records
A student gets a master diploma after receiving a transcript of records validated by Erasmus.
Read the full story

2/6
Bachelor/Master Degree
A student applies for a PhD with a bachelor/master degree from a foreign country.
Read the full story

3/6
Municipality Credentials
A student gets access to local discounts using municipality credentials based on a European student card.
Read the full story
EBSI: Join the community

How can you join the EBSI ecosystem?

As a trusted accreditation organisation

- National authority

You can become a trusted accreditation organisation and/or issuer of verifiable IDs.

As a holder

- Student

You can join the group of beta users.

As an issuer

- University
- Professional associations or chambers

You can become an issuer of the proposed educational credentials or implement other credentials to enrich the service.

As a verifier

- Employer

You can join and adopt such solution in the context of your recruitment process and significantly reduce your verification costs.

As a wallet provider

- IT service provider

You can turn your wallet into an EBSI conformant wallet and build a non-European wallet ecosystem.
What is EBSI today?
Progress on all layers of EBSI

- EBSI Ledger, Smart Contracts and APIs
- EBSI Stakeholders
- Wallet Conformance Testing
- Use Cases
- Technical Services and Infrastructure

- TAO
- Issuer
- Holder
- Verifier

- ESSIF
  - Education
  - Social Security

- Verifiable Credentials
  - Document traceability
  - SMEs Financing
  - Asylum Management
  - Trusted Data Exchange

- TAO
  - Issuer
  - Holder
  - Verifier

- Wallet applications
- Track and Trace
- Trusted Data Exchange
- IP Management

- EBSI Stakeholders
- Technical Services and Infrastructure
- Use Cases
- Wallet Conformance Testing

- Actors
- Applications
- UC Domain
- UC Family

- Use Cases
  - SMEs Financing
  - Asylum Management
  - Trusted Data Exchange

- TAO
  - Issuer
  - Holder
  - Verifier

- Wallet Conformance Testing
- Use Cases
- Technical Services and Infrastructure

- Nodes
EBSI: https://ec.europa.eu/digital-building-blocks/wikis/display/ebsi/

Diploma Use Case: https://ec.europa.eu/digital-building-blocks/wikis/display/EBSI/What+is+ebsi#anchor-ebsi-use-cases

EBSI Verifiable Credentials Playbook: https://ec.europa.eu/digital-building-blocks/wikis/display/EBSIDOC/

Early Adopters Programme: https://ec.europa.eu/digital-building-blocks/wikis/display/EBSI/Early+Adopters+Programme

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