From national federations to wallets

Stefan Liström (Sunet) – NCW25 Copenhagen

SUNET

Agenda

- Background
- Wallet ecosystem overview
- Demo
- Pilot discussion

SUNET

EU digital identity wallet

- EU digital identity wallet is part of the new revised eIDAS regulation.

- Digital identity wallets for natural and legal persons to help in a secure, verifiable and easy way request, hold and present information about themselves to be used as digital evidence online and offline as well as giving users control over their data and sign documents with a qualified e-signature

- eIDAS regulation
  - https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A02014R0910-20240520

SUNET

First Large Scale Pilots (LSPs)

- DC4EU, EWC, Potential and NOBID ended 31st of July 2025.
- DC4EU worked on the use cases for educational credentials e.g. diploma and micro-credentials.
- After summer the results of the pilots will be presented.

SUNET

Second iteration Large Scale Pilots

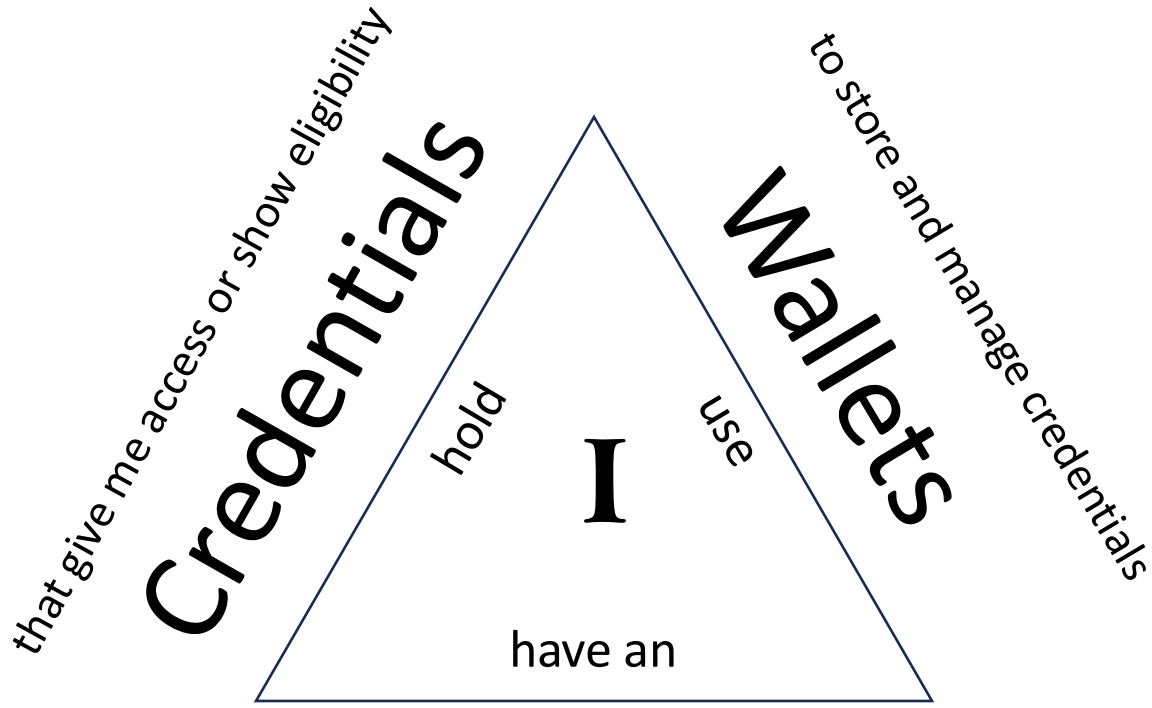
- Second iteration of Large Scale Pilots started 1st of August 2025. Two pilots instead of four this time with more focus on the business wallet, e.g. payment solutions.

- New LSPs are called We build and Aptitude.

- We Build has one business use case for micro-credentials and skills.

SUNET

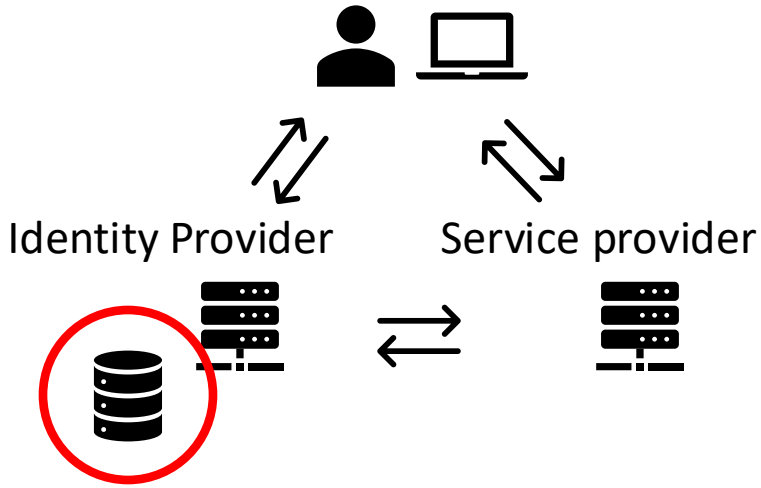
What is it all about?



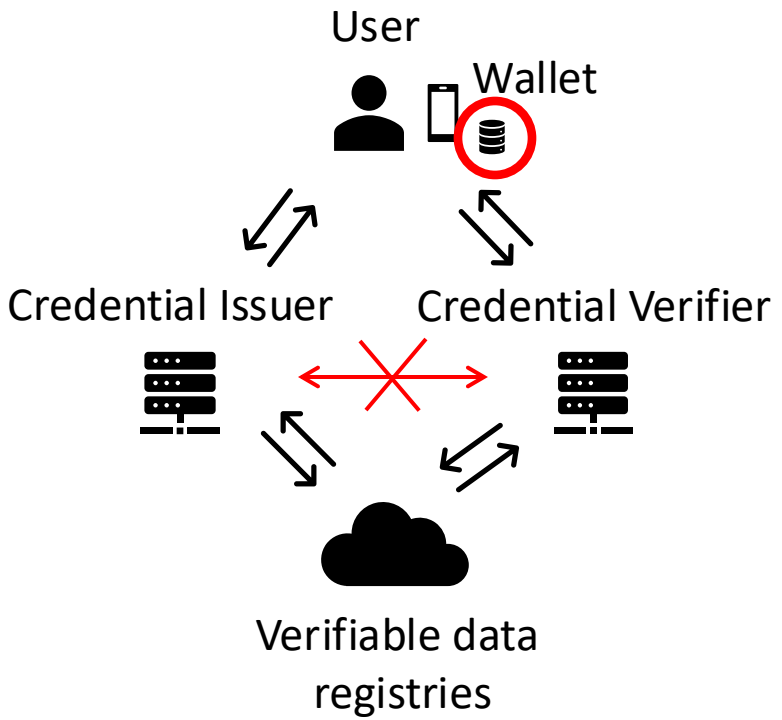
SUNET

How is this different from classic IAM?

Federated identity example

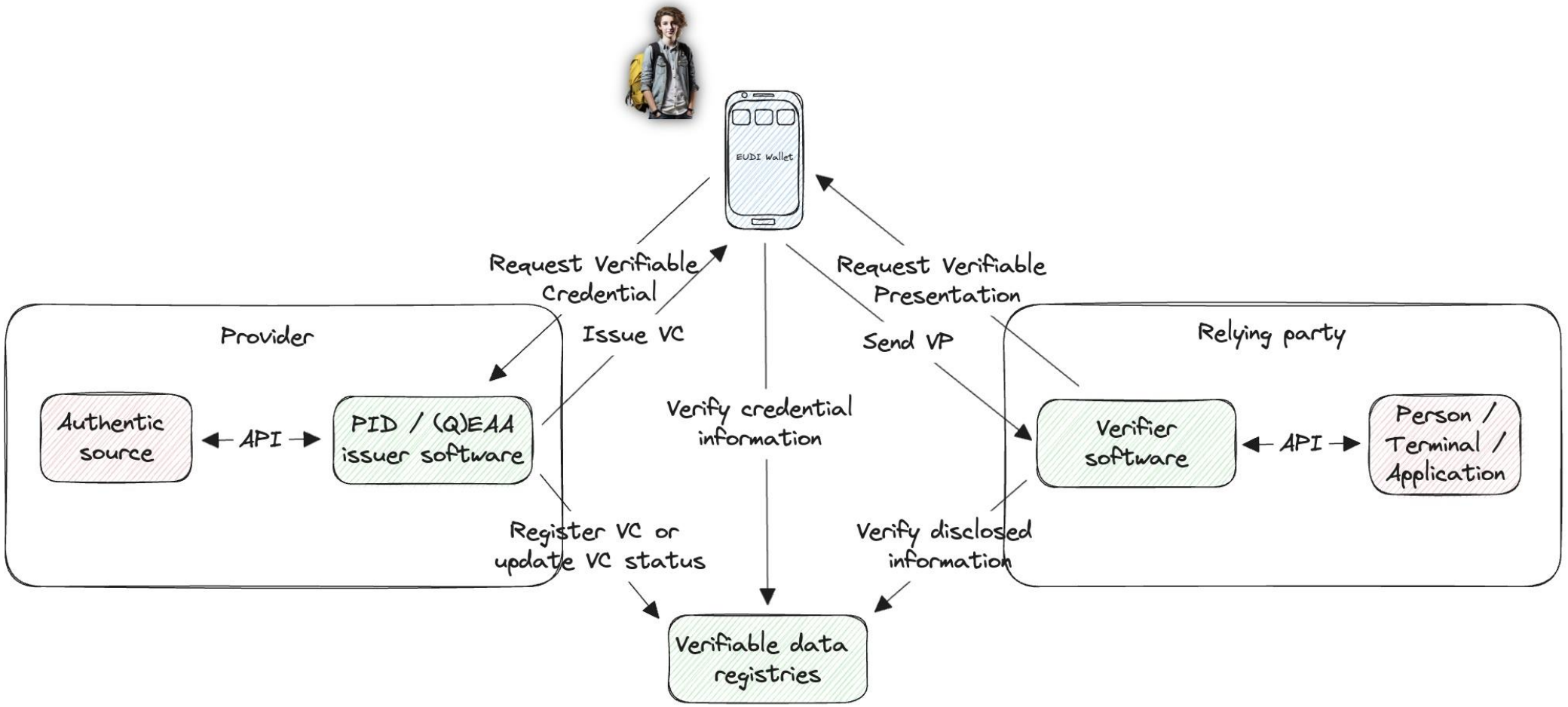


Wallet ecosystem



SUNET

Wallet ecosystem



SUNET

Demo

- Issuer - https://demo-issuer.wwwallet.org
- Wallet - https://demo.wwwallet.org
- Verifier - https://demo-verifier.wwwallet.org

SUNET

NREN wallet pilot

1. Establish participants
2. Agree on goals
3. Agree on steps and timelines
4. Start working

SUNET

Suggested setup

1. Establish participants
    1. NORDUnet NRENs but also open to others
2. Agree on goals
    1. Give NRENs an understanding on how the wallets will work
    2. Assess how to use national infra for education and research
    3. Understand how much synergy there could be with the gov wallets
    4. Understand what kind of credentials can be used
    5. Look at interop aspects across countries from the credential and wallet
3. Agree on steps and timelines
    1. Outline architecture – until end of 2025
    2. Setup national NREN ecosystems and start testing interoperability – during 2026
    3. Establish and start testing NREN and governmental interoperability – during 2027
4. Start working

SUNET