

Webwallet for research use case

Trust & Identity Incubator Final Demo

Demo, Online

02 May 2024

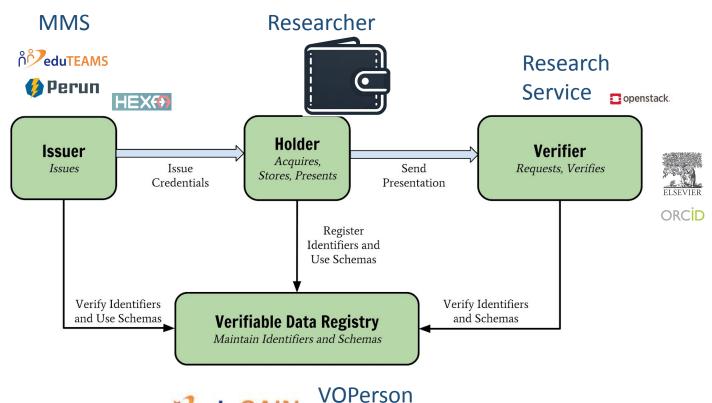
Public (PU)

Background of the work

- Europe is working towards a wallet-based identity ecosystem
 - The Architecture and Reference Framework (ARF) serves as a basis for the implementation of the proposal for the European Digital Identity Framework
- The initial assumption was that all interactions will be handled via an app on a mobile phone.
 - While this may suffice for many users, it will leave out groups that cannot or will not use such devices. In addition, it creates a dependency on the vendors of the devices and the software they run on
 - users may not be willing to store and aggregate work related data on a personal device
 - accessibility
- A first version of a web wallets has been developed as part of the eDiplomas Wallet Ecosystem activity
- This activity will investigated the usability of webwallet in the context of research use cases



Use case



eduPerson

₹eduGAIN

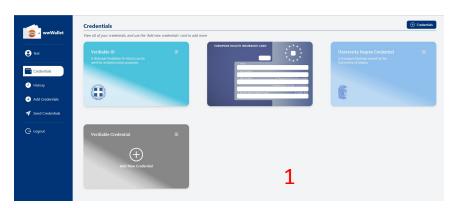


Work done

- Deployed wallet multiple times and exchanged credentials across deployments In - alpha heavily impacted our ability to work with
- Create Ansible deployment script for wallet ecosystem
- Carious code and documentation changes made to SpruceID and SSP were accepted upstream **TODO links**
- Tested various passkey implementations, that seems to work well
- : Hacked SpruceID Issuer, many incompatibilities noted in interpretation of specifications
- Selective disclosure not implemented
- SaToSa RP implementation not testable



GUI overview





National Verifiable ID Issuer



Consent The following credentials have been found. Please review their

Details of authorization

Client wwwallet.ww4.hex Expiration 1 year





Consent

The following credentials have been found. Please review their details and select the one you want to receive.

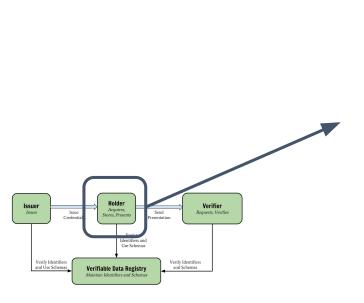


Details of authorization

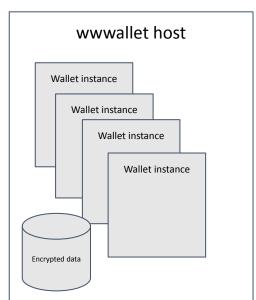
Client wwwallet.ww4.hex 1 year



Architecture



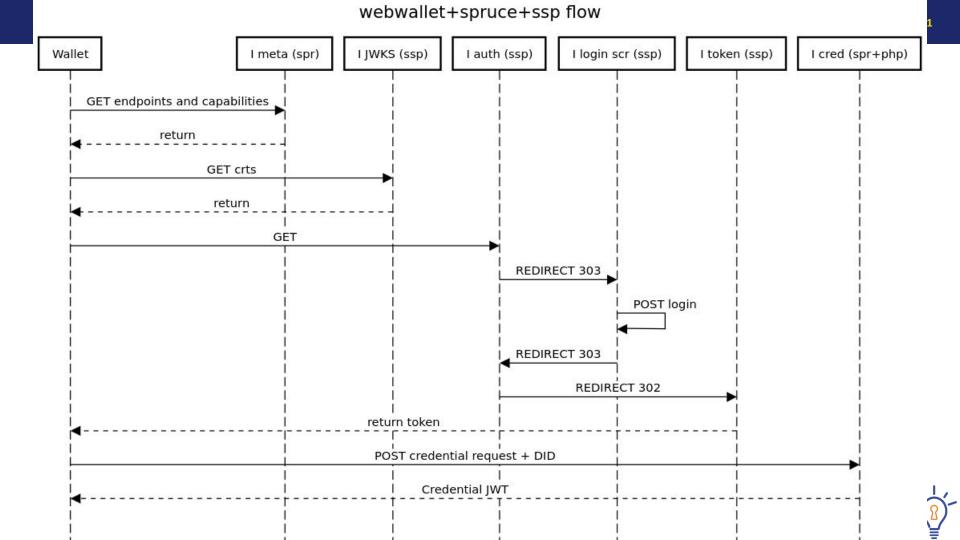






PASSKEY







Welcome to wwWallet

- Learn about PRF Compatibility regarding browser/OS support and discover www.Wallet via our Launchpad and Sample Scenarios
- Make sure that your date/time settings and timezone are correctly set and accurate.

| Login | |
|-------------------|-----|
| Username | |
| ≗ mheder | |
| Password | |
| <u> </u> | 0 |
| Login | |
| OR — | |
| 🕍 Login with pass | key |
| New here? Sign Up | |

Activity results

- general direction is promising
- wwwallet is in development
 - convincing PoC
- limited browser compatibility
 - details of passkey protocol
- only tested with auth code flow
- data vocabulary for research TBD





Unsupported platform

It seems like you are using a browser or operating system that does not support the features used in this application.

The application is known to work with the following:

- Chrome, Edge, Opera or Brave on Windows
- Chrome, Edge, Opera or Brave on MacOS
- Chrome, Edge, Opera or Brave on Android

Code developed

spruceID improvements; Simplesaml improvements; php proof-of-concept; ansible; https://gitlab.software.geant.org/TI Incubator/wwwallet-playbook





Thank You

www.geant.org

