



# Identity Unleashed

## Embrace Digital Sovereignty





My  
Identity

# My Identity



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# My Identity

Decrypting...



# My Identity

infinity

Alwin Perotti

Working in the IAM field since:  
March 2009

Region:  
West Europe

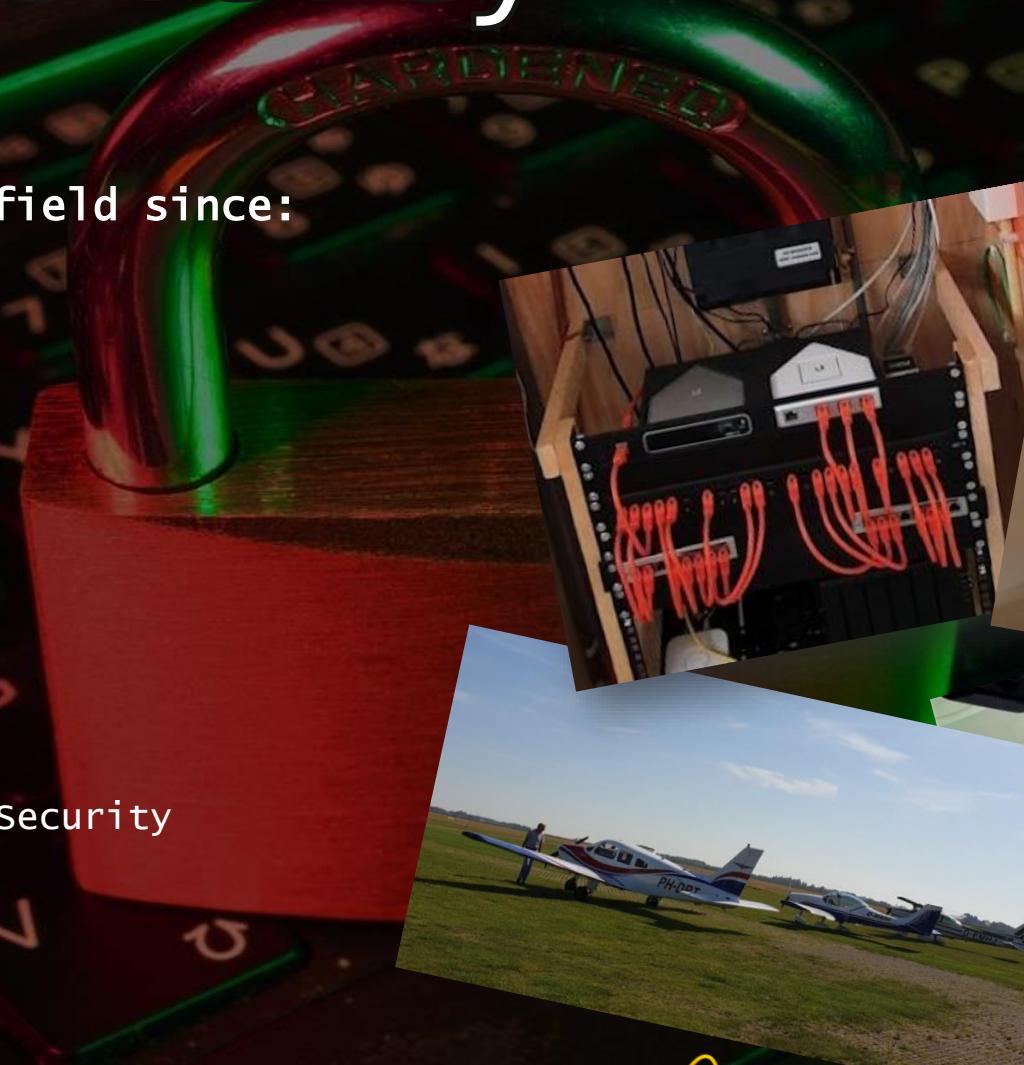
Country:  
Netherlands

Company: Infinity IT

Job Role:  
Tech Lead workplace & Security

Home:  
Muiden

Hobbies:  
Home Domotica, Flying, Lego, Playing the Piano

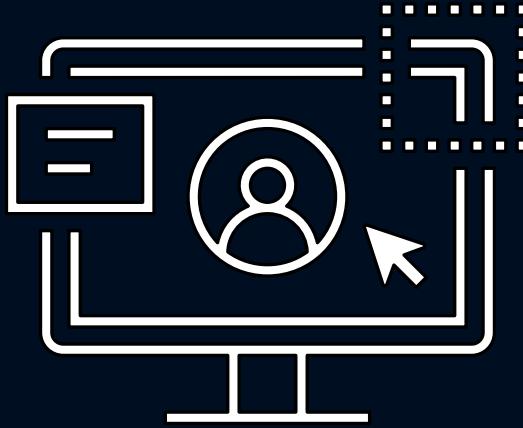


SLTN  
Future Proof IT



avanade

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IDENTITY GOVERNANCE & ADMINISTRATION  
www.tools4ever.com



Digital  
Identities

# Identity

The **identity** of a person or place is the characteristics they have that distinguish them from others.

[CollinsDictionary.com](#)

Meet Jim



# Digital Identity

A **digital identity** is information on an entity used by computer systems to represent an external agent. That agent may be a person, organization, application, or device.

*ISO/IEC 24760-1 (IT Security and Privacy) defines identity as "set of attributes related to an entity".*



# Identity Governance and Administration

Identity and Access Governance (IAG) ensures that only the **right people** get entitlements to the **right resources** (e.g., applications and data) at the **right times** for the **right reasons\***.

*Alwin G. Perotti*

# Identity Provider

A system that **validates** the **identity** of a user in a **federated system**. The service provider (or SP; see below) uses the IdP to get the identity of the current user.

*Harvard University Information Technology (HUIT)*

Meet Jim





the  
office



# Authentication

Commonly called “logging in”, it’s the process of validating that people or entities are who they say they are.

Harvard University Information Technology (HUIT)

Jim as Dwight



# Different Identity Providers

SOCIAL

ENTERPRISE

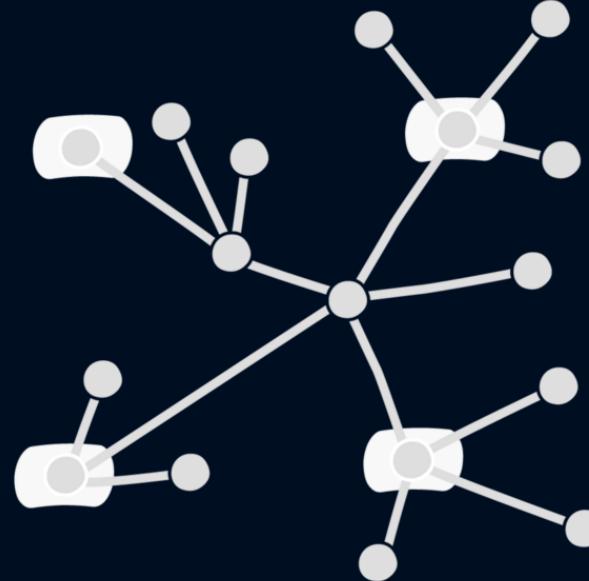
VERIFIED IDs & REGIONAL eIDs

AUTHENTICATION ADAPTER MICROSERVICE PROVIDES RAPID DEPLOYMENT OF NEW REGIONAL eIDs & IDENTITY PROVIDERS

OpenID® OpenID Connect SAML WS-Federation fido FIDO2

# Identity Lifecycle





Decentralization

# Decentralization



Centralized or decentralized,  
that is the question

# Identity Types

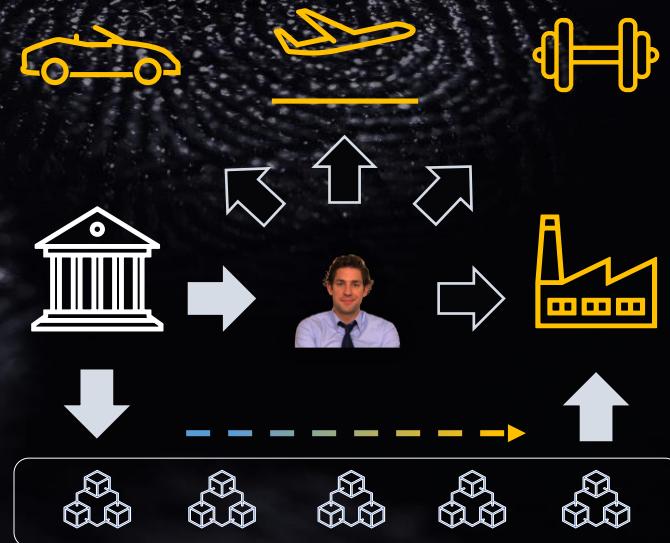
**siloed**  
self-assured, trust  
not relevant



**federated**  
trust via pre-existing mutual relationship



**Decentralized**  
trust via ledger/trust system, relationship not required



# Terminology

Decentralized Identity



wallet

Ledger



verifiable credential



Issuer

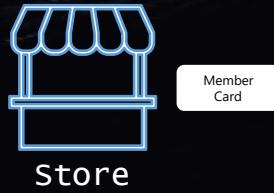
Verifier



# Issuers



Government



Store



Private Data



Bank

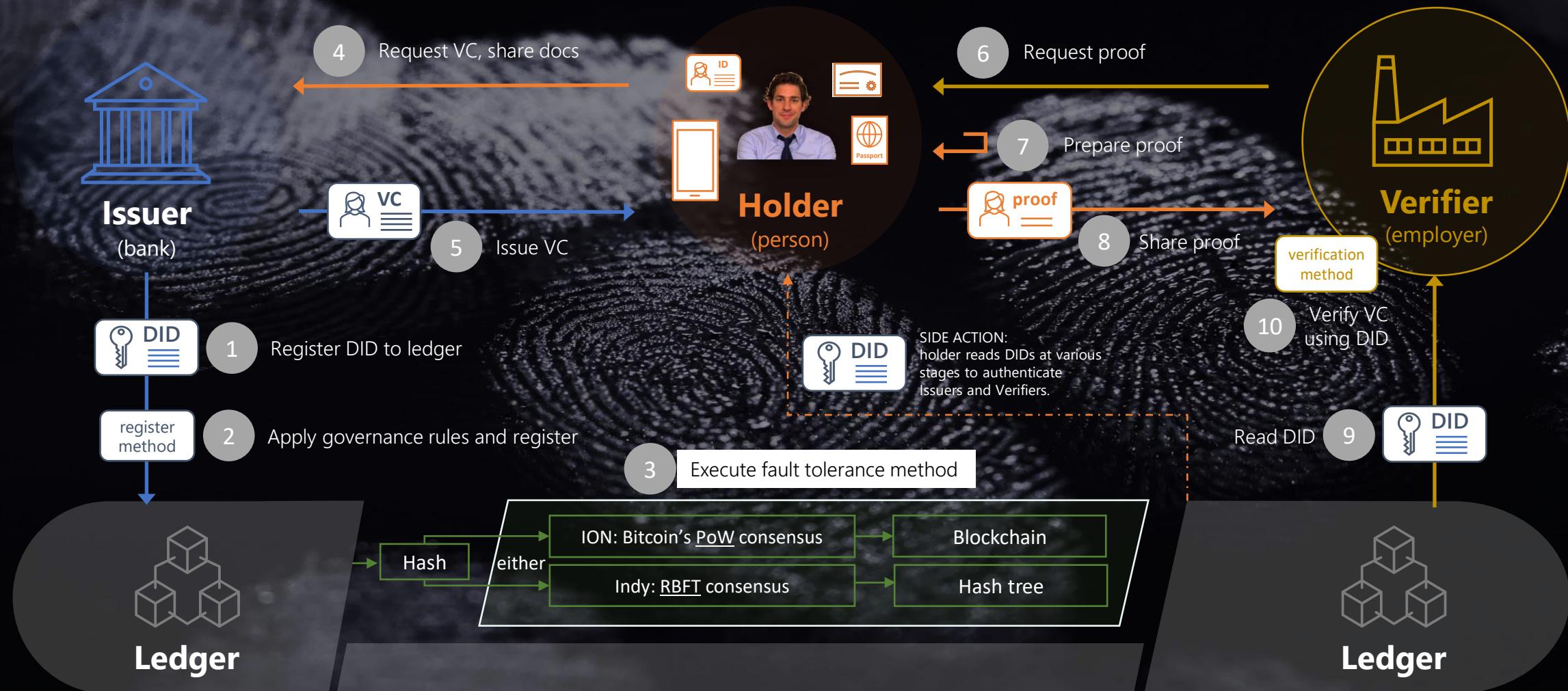


Company

# Identity Proofing Journey

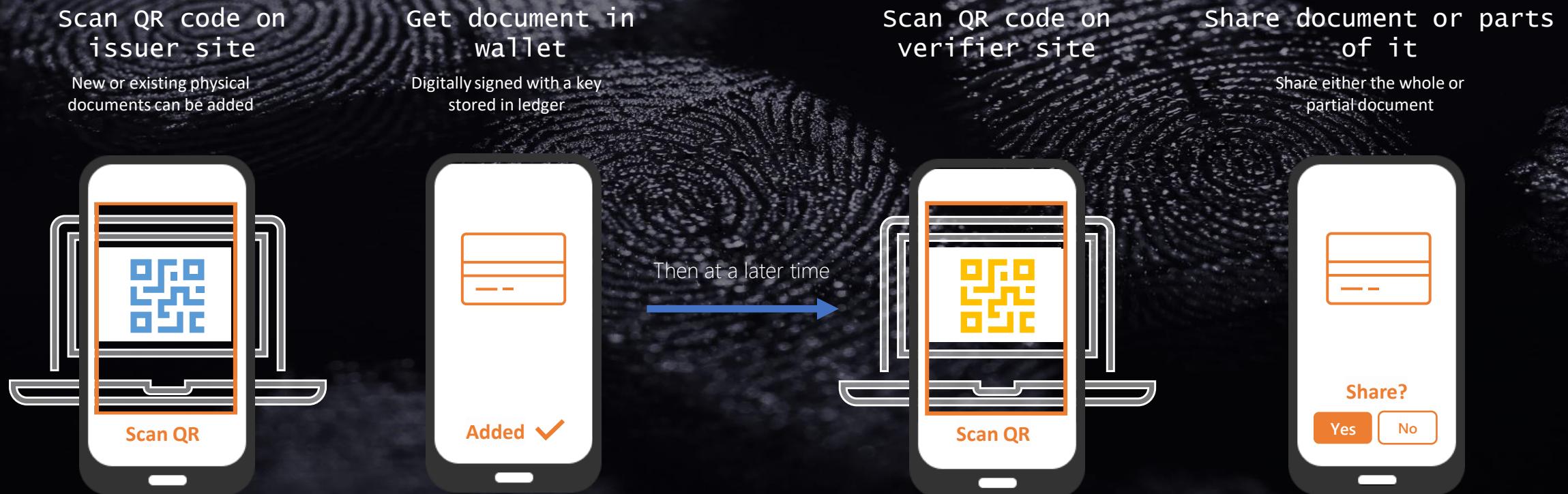


# Issuance & Verification



PROVENANCE OF TRUST: the **Ledger's** immutability and governance rules allow the **Issuer** to trust the **Verifier's** key without prior integration

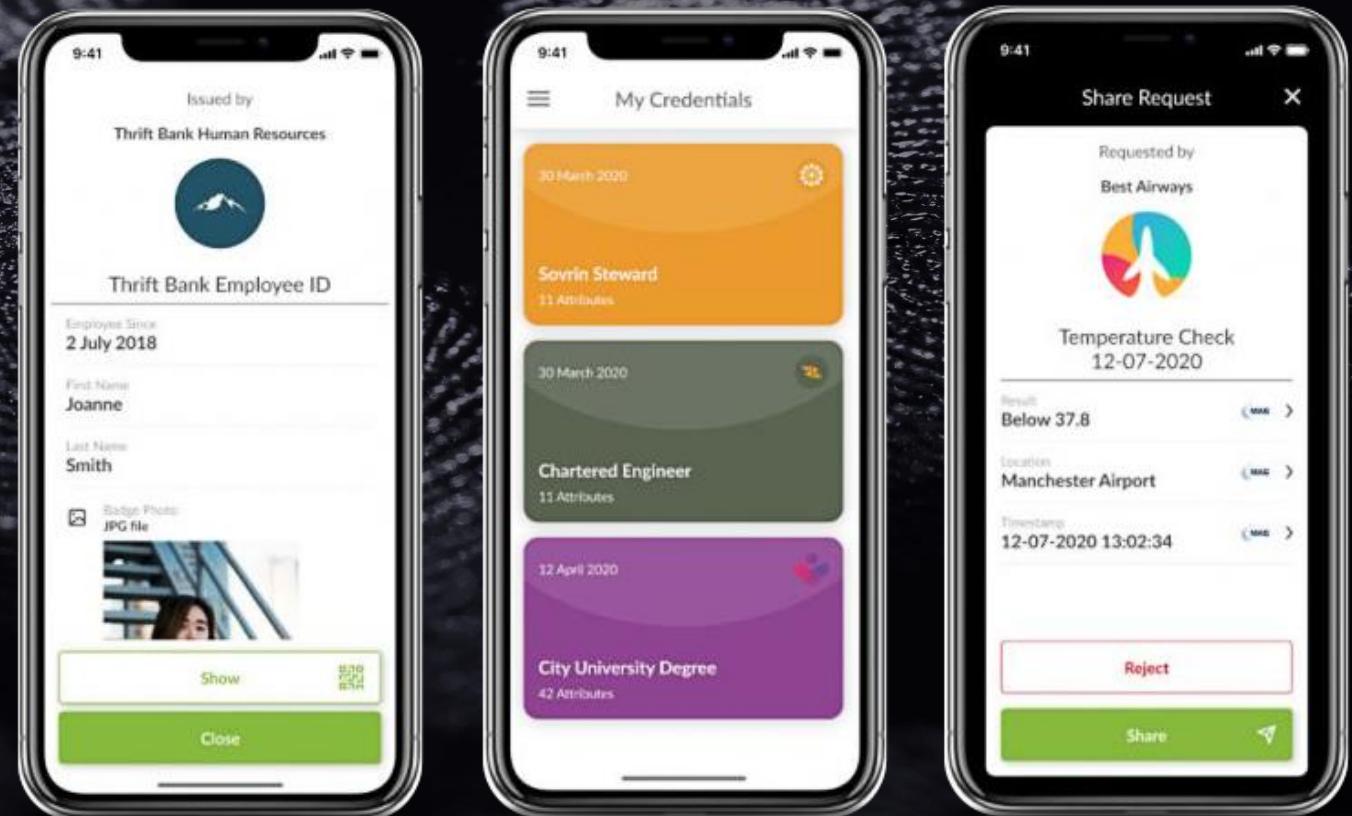
# UX Perspective



# wallets

- Manages reception, storage and sharing of credentials
- Manages relationships with Issuers and verifiers
- Provides features: information, history, backups etc
- Evernym Connect.Me is the market leader, Trinsic is an alternative
- Microsoft has integrated a DID wallet in their very popular Authenticator App
- Google and Apple are coming

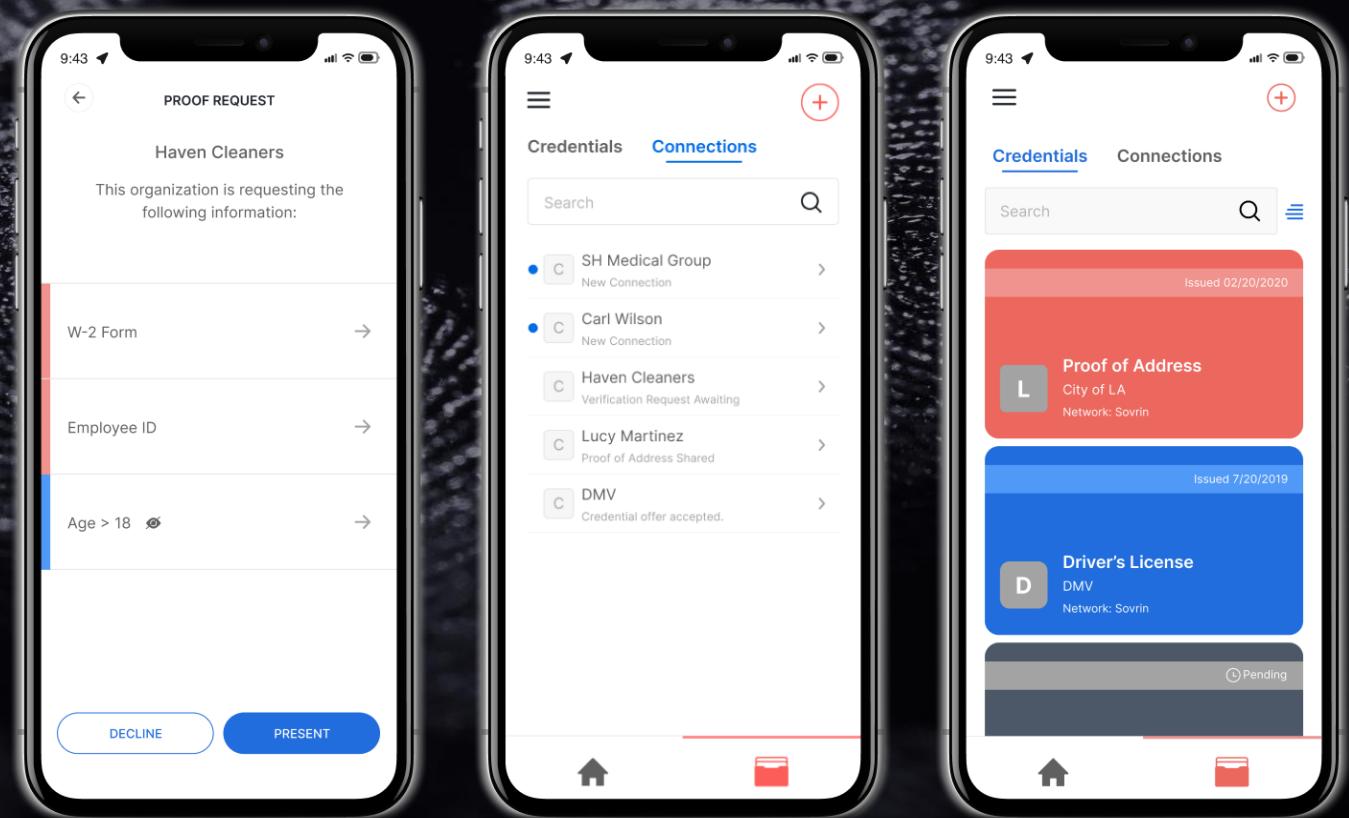
## Evernym



# wallets

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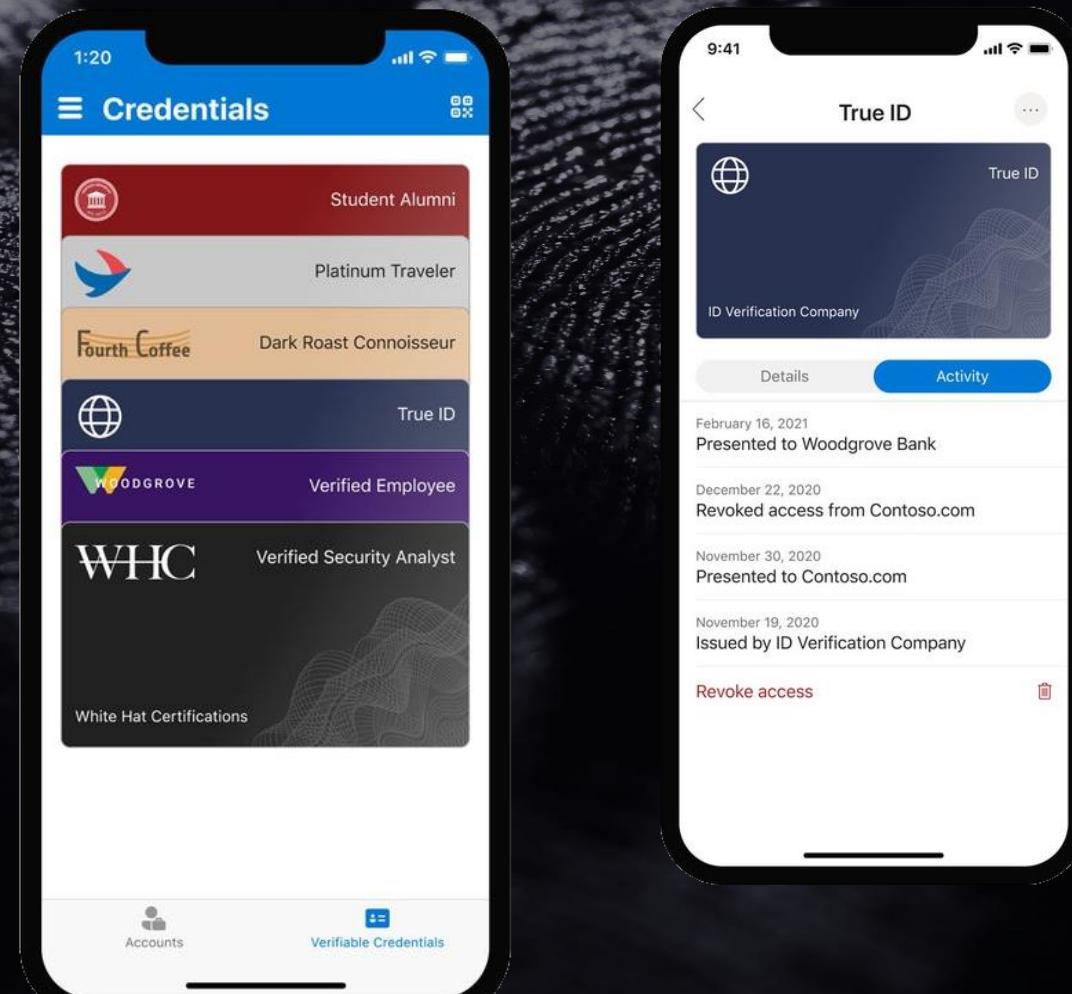
## Trinsic



# wallets

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Microsoft

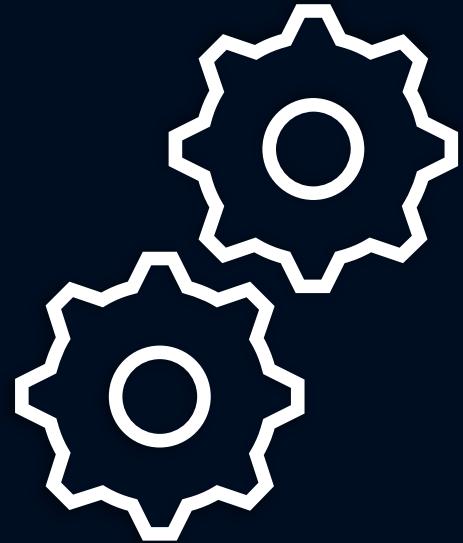


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- Microsoft has integrated a DID wallet in their very popular Authenticator App
- Google and Apple are working on it...

Apple





**Demo Time**

# verifiable Credentials Demo



# Brace Yourselves



**IT'S LIVE DEMO TIME**

Michael as Jim

```
PS C:\ <#  
>> .NOTES  
>> Author: Alwin Perotti  
>> Date: September 5, 2023  
>> Version: 1.1  
>> #>  
PS C:\ .\Sources  
PS C:\ Blog-Article\Own-your-digital-identity.html  
PS C:\ Blog-Article\watch decentralized identity in action.html  
PS C:\ Demo\Microsoft Verified ID Demo.html  
PS C:\ Developer\Microsoft-JWT-Decode-site.html  
PS C:\ Media\Decentralized-identity-explained.html  
PS C:\ Media\Understanding-and-using-verifiable-Credentials.html  
PS C:\ Socials\Alwin Perotti-LinkedIn.html  
PS C:\ Socials\infinity.n1.html  
PS C:\ Standards\IsoPubliclyAvailableStandards.html  
PS C:\ Standards\verifiable Credentials Data Model v1.1.html
```