















#identiverse

"Move over browser"

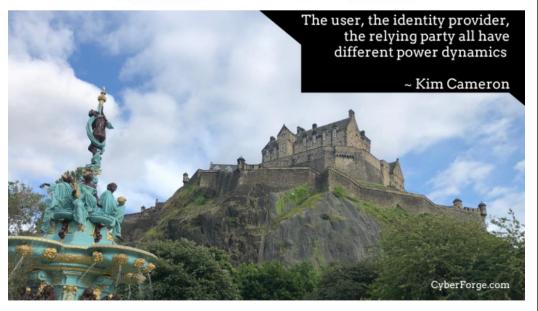
CyberForge

ABOUT

JOURNAL

Asymmetric wallet wars

By ANIL JOHN on 15 December, 2022 | Permalink



'Digital wallets to be as essential as browsers': OpenWallet Foundation calls for builders

(E) Feb 24, 2023, 6:38 pm EST | Frank Hersey

CATEGORIES <u>Biometrics News</u> | <u>Civil/National ID</u> | <u>Features and Interviews</u>





FORBES > MONEY > FINTECH

The Wallet Wars Are Not About Money, They Are About Identity

David G.W. Birch

Contributor ①

Author, advisor and global commentator on digital...





Feb 1, 2023, 06:49am EST

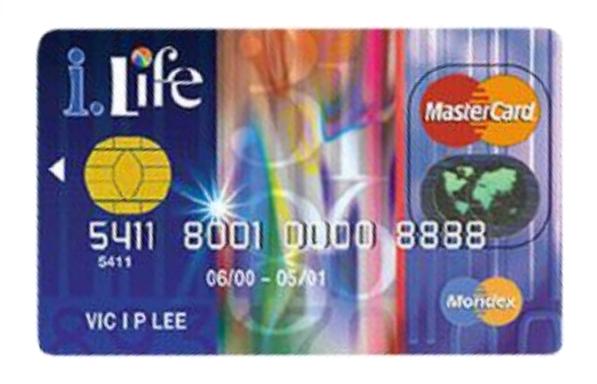
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Early wallets 2003-04







Digital credentials 2006-11

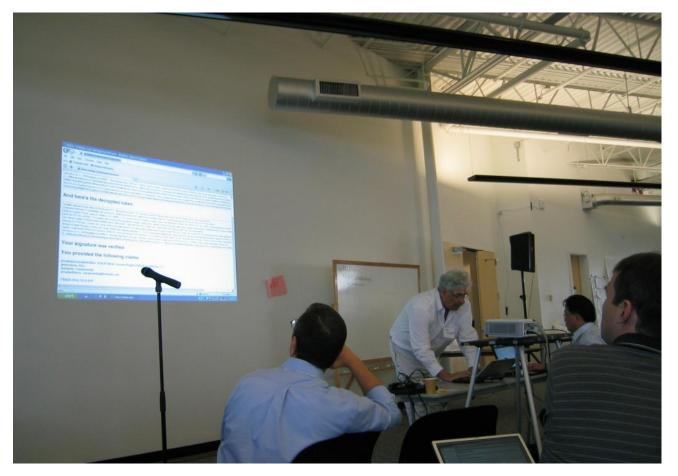


Photo credit: Ian Brown, IIW, 2006



Digital credentials 2006-11

What is a Digital Identity?

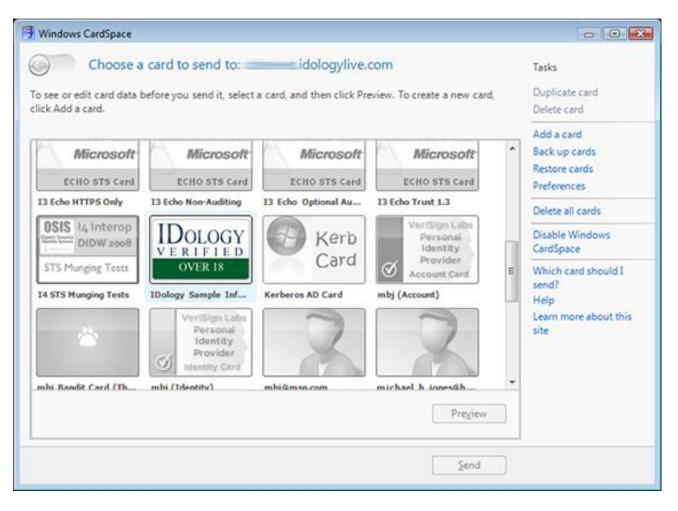
- Set of claims one subject makes about another
- Many identities for many uses
- Required for transactions in real world and online
- Model on which all modern access technology is based



Ref: "Cardspace". March 2007



Digital credentials 2006-11



Ref: Mike Jones, Self Issued, 2008



The smartest move 2011-12

Media & Entertainment

TechCrunch Review: Google Wallet

Greg Kumparak @grg / 6:24 AM GMT+10 • September 20, 2011



I have seen the future, and it is called Google Wallet.





The smartest move 2011-12

Media & Entertainment

Apple Announces New Passbook App To Store Movie Tickets, Retail Cards, And Boarding Passes

Anthony Ha @anthonyha / 4:50 AM GMT+10 • June 12, 2012









Evolution of cards

5. Integrated 1

4. Intelligent

3. Data protected

2. Machine readable

1. Manual











1950

1960

1970

1980

1990

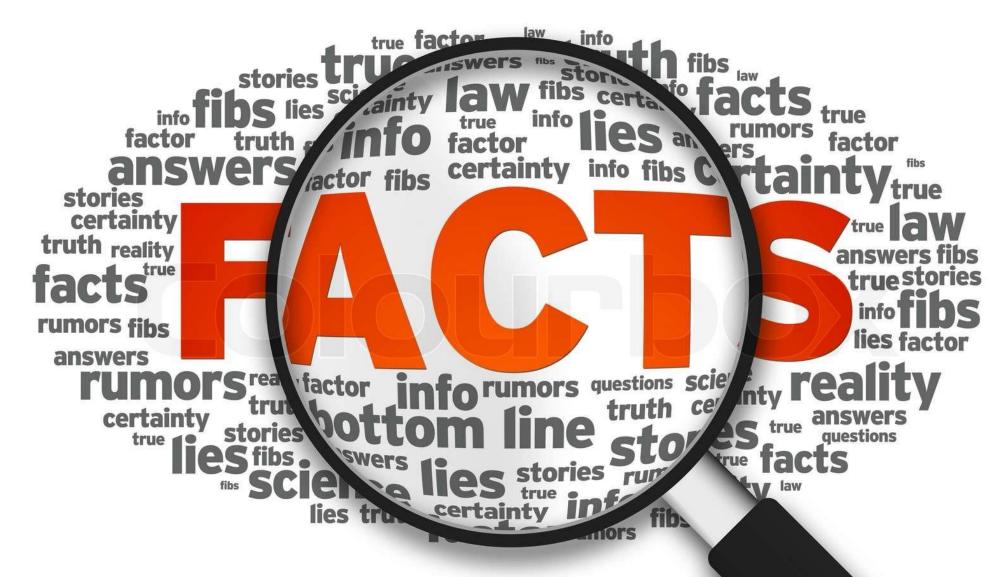
2000

2010

2020

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Data and metadata













Verifiable Credential

Credential Identifier

Claim

Credential Metadata

Issuer Signature

Verifiable credential

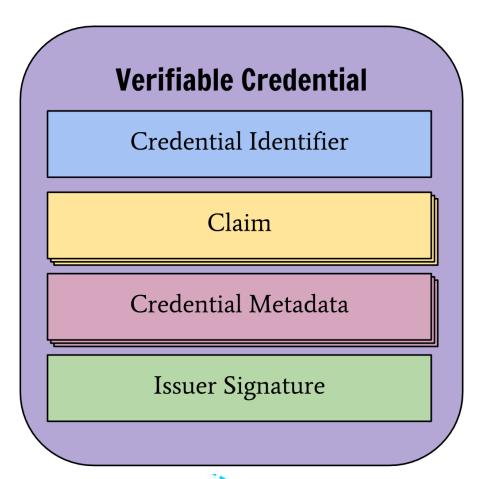
W3C Verifiable Credentials Data Model 1.0

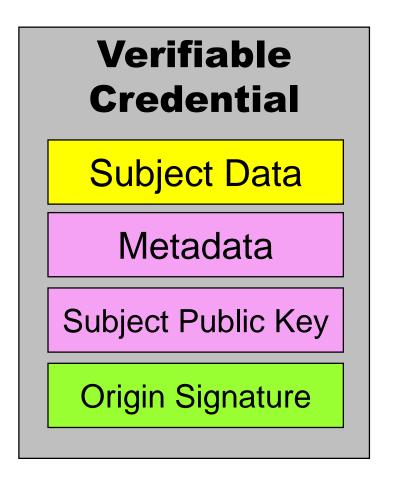
World Wide Web Consortium

3 March 2022



Abstracted verifiable credential







Wallet

User Interface / Application Interface

oad API

Driver Lic No.

Metadata

VC

Subject Pub Key 1

DMV Sig

VC

Over 21y old

Metadata

Subject Pub Key 2

DMV Sig

VC

COVID status

Metadata

Subject Pub Key 3

Path Lab Sig

Cryptoprocessor

Private Key Store

Wallet

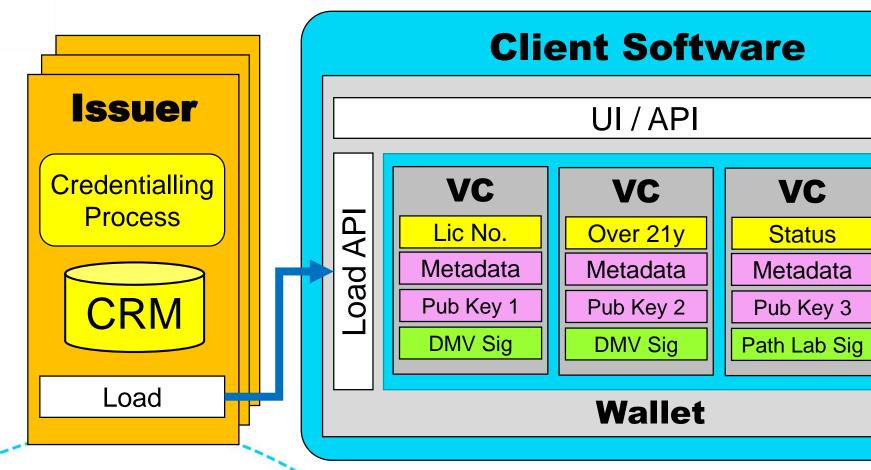


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Presentation



Wallet in context



Relying Party
Txn System
Relying

Relying Party
Txn System

Presentation

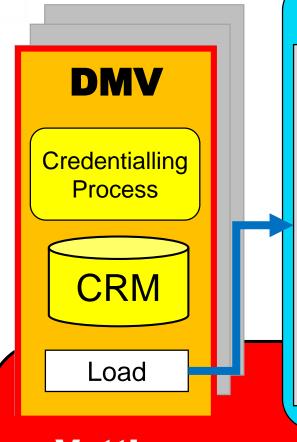
Relying Party

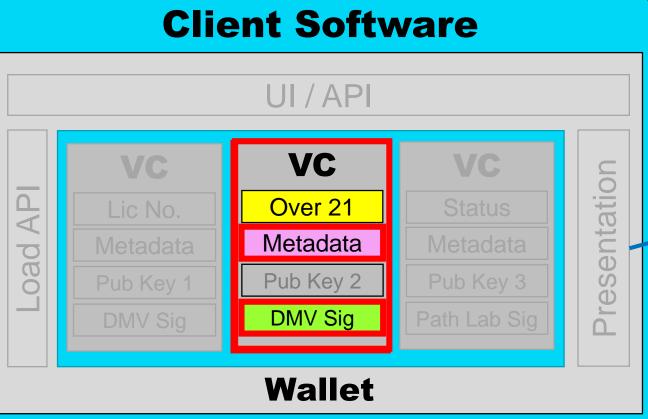
Txn System





Wallet in context - proof of age





Relying **Party** Liquor **Store** Tyn System Root Keys Party **Onboarding**

Vetting

Acceptance Network



Uncomfortable truth

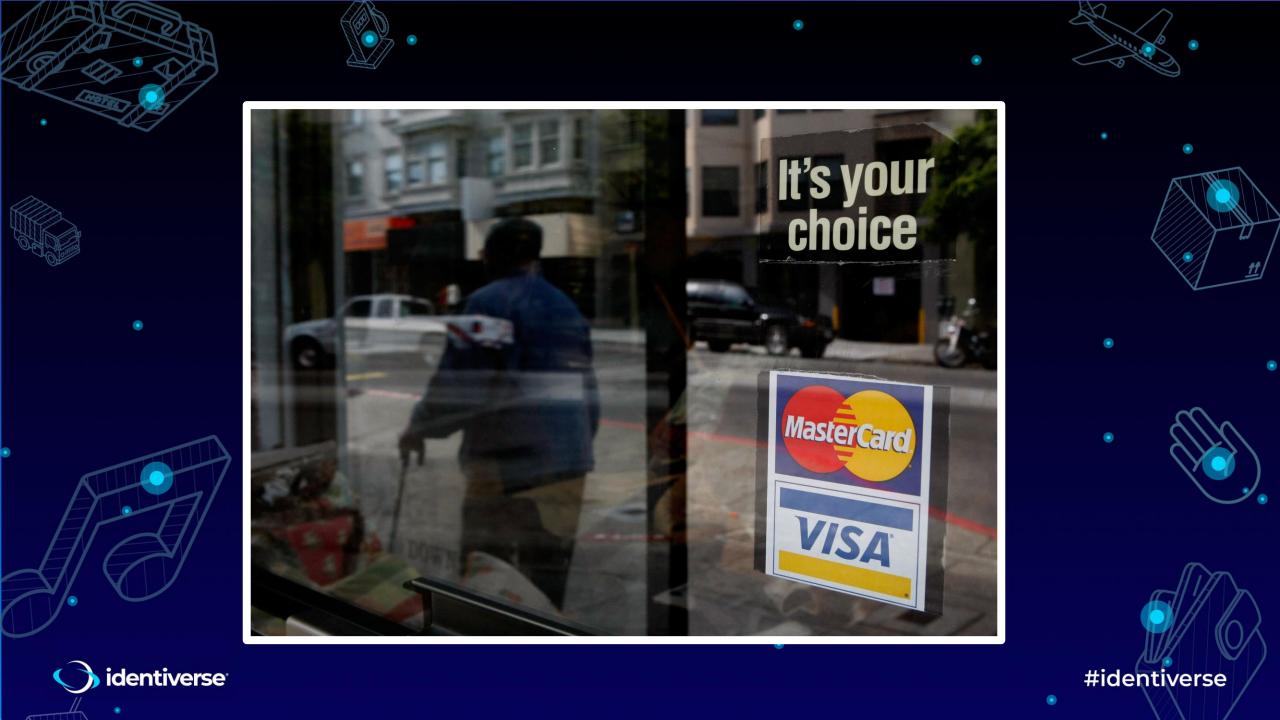
"The whole system of identity emanates from the relying parties... If they don't like it, it goes nowhere"

Kim Cameron, IIW 2016quoted by Tarun Wadhwa



Picture credit: Doc Searls



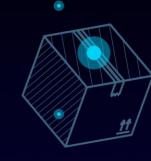




THANK YOU!











Stephen Wilson

Principal
Lockstep Consulting
www.lockstep.com.au/DVP

