2019 S&T Cybersecurity and Innovation Showcase

Solutions Now I Innovations for the Future





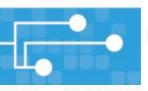


Mobile Device Attribute Validation (MDAV)

Steve Wilson | Lockstep Technologies / ValidIDy

March 20, 2019





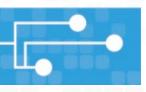
Team Profile

- Lockstep / ValidIDy
 - Steve Wilson Principal Investigator
 - Les Chasen Technical Architect



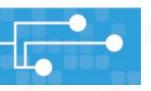
- Kantara Identity & Privacy Incubator Colin Wallis, Ruth Puente
- CCICADA, Rutgers University Prof Janne Lindqvist
- DHS Program Management Anil John, Ryan Triplett





Customer Need

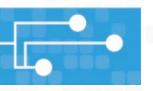
- First Responders (keystone customers)
 - proof of First Responder credentials, with low or zero network
 - including proof of issuer (provenance)
 - tamper resistant storage in mobile devices.
- Broader users (healthcare, government, Open Banking)
 - manage multiple attributes
 - anonymously, pseudonymously
 - decouple attribute issuers, smart devices, and RPs.



Approach

- Updating "Attribute Certificates" with simplified X.509 profile
- Working with partner DigiCert to innovate managed PKI services
- Mature proven technology stack
 - Certificate Authorities ("security printer for digital certificates")
 - Registration Authorities
 - iOS, Android, web clients





Benefits

More Secure

- Ensures provenance of individuals, devices and issuers
- Forgery resistant
- More resilient (resistant to network impacts, no SPOF)

More Private

- No need for "honeypot" centralized registries
- No Intermediaries
- Minimized information disclosure

More Cost Effective

- No impact to current business processes
- Mature and standard technology stack
- Greater interoperability.



Benefits

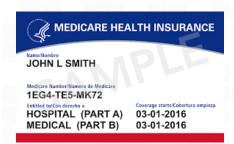


If something is true in the real world, then we make it true in the digital world.



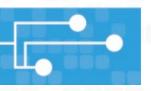












Competition/Alternatives

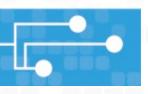
- Existing physical cards
- Centralized directory lookup
- Blockchain technologies remain experimental



Current Status

- V1 Reference Implementation available Apple & Android
- Evaluated by National Urban Security Testing Laboratory (NUSTL)
- Closing out developer support
- Working with pilot partners
- Launched <u>valididy.com</u>





Transition/Completion Activities

- NUSTL testing (report available soon)
- Launched commercial go-to-market entity
- In advanced discussion with
 - Healthcare, for Electronic Visitor Verification
 - Healthcare, for consent management across HIEs
 - Open Banking, for provenance of customer data





Contact Info

Steve Wilson

Lockstep Technologies / ValidIDy steve.wilson@valididy.com +61 414 488 851 @steve_lockstep @ValidIDy





