

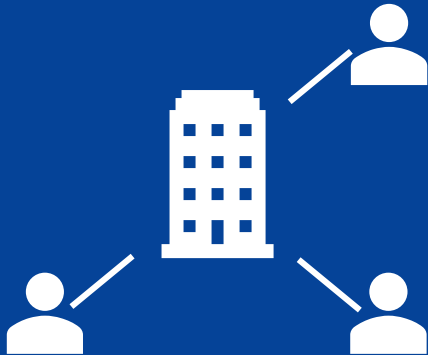
Fact-based access control with SSI

MyData Conference 2019
Session "SSI in Action"
Helsinki, 27 September 2019



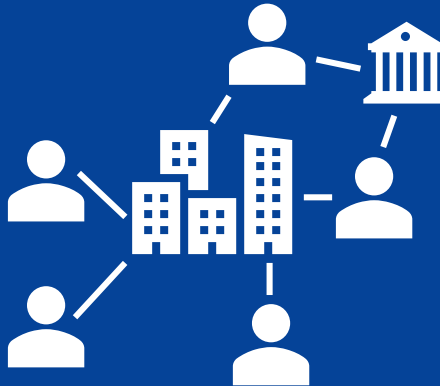
Our SSI journey and roadmap

Local use cases



Spread SSI in large companies for I&A

Reach critical mass!



Interconnect legal entities
Simplify processes and landscapes
Make people enthusiastic about it!

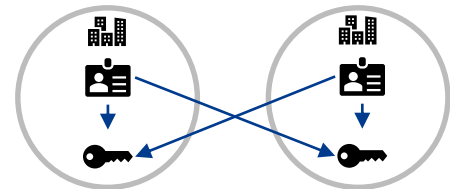
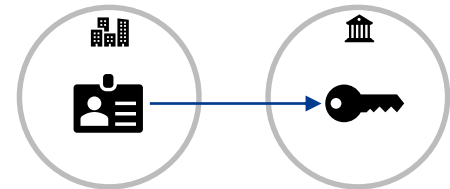
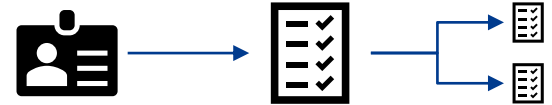
Global use cases



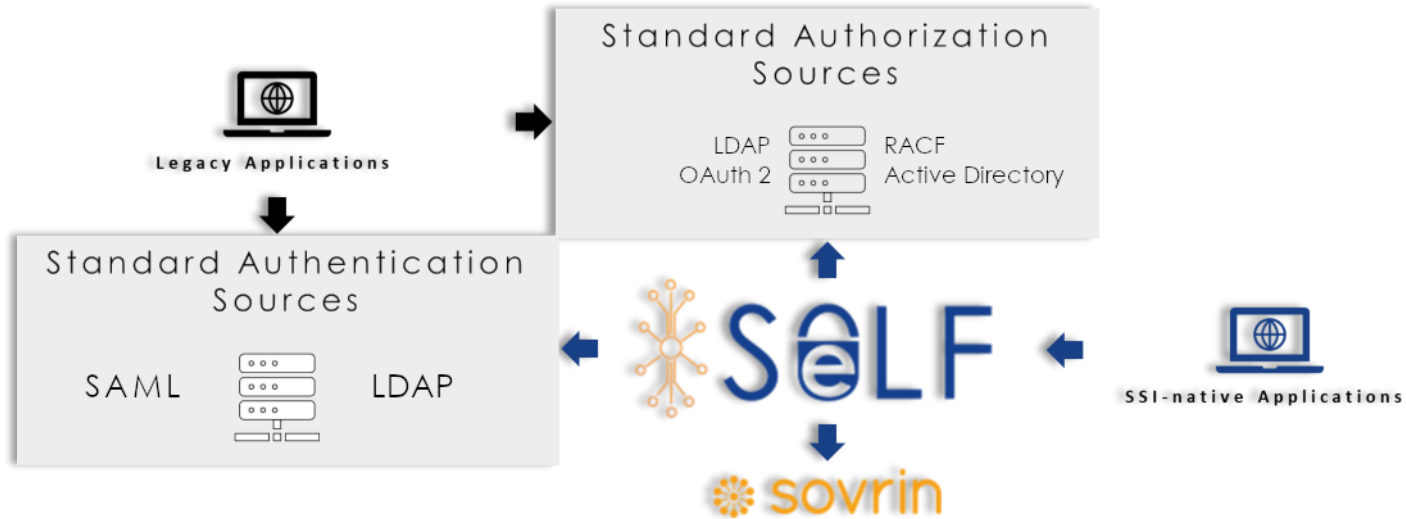
International upscaling of SSI use cases and infrastructure

SSI use cases for Identity & Access

- 🔒 Credentials lead to entitlements, also works for physical access
- 🔒 Credentials as primary source for facts
- 🔒 Use credentials externally
- 🔒 Cross-organizational onboarding and entitlements



An SSI-based Enterprise I&A Solution: Connecting legacy and SSI-native target systems



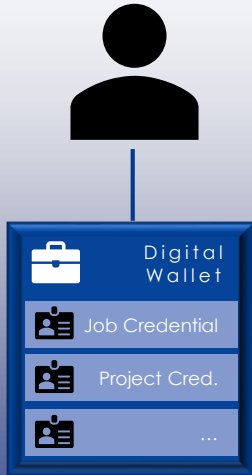
Rule Engine

Claim Rules
(i.e. cr.employer = Acme)

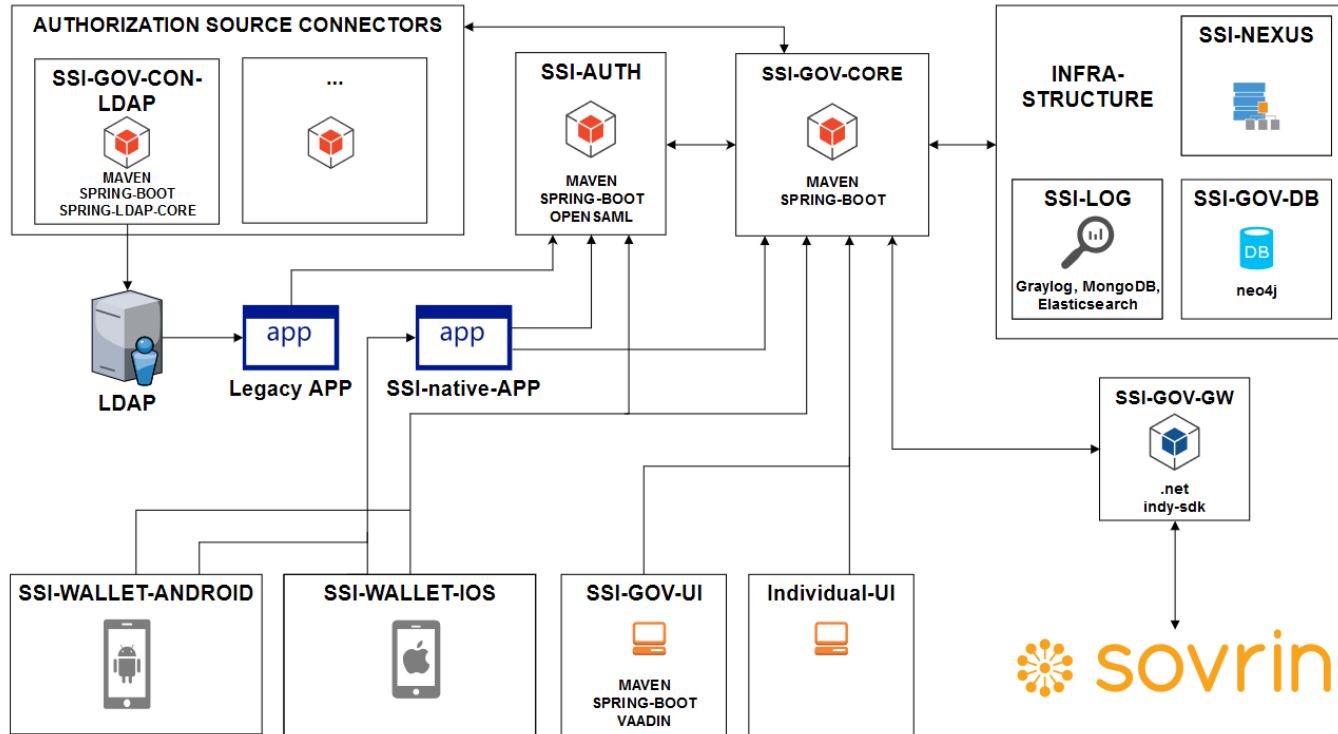


Context Rules
(i.e. location, time)

Entitlements




Enterprise-ready component landscape



Get connected with SeLF!



 self-ssi.com

 [@esatus_SeLF](https://twitter.com/esatus_SeLF)

 [@esatusself](https://www.linkedin.com/company/esatusself)

Fact-based.

Flexible.

Discreet.



Thank you!



Your esatus SSI Contact



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The Sovrin Network

Public Permissioned
Blockchain/DLT

Hyperledger Indy

Open Source

Non-Profit
Organization



65 Stewards
worldwide

W3C Standards

Transparent
Governance

**Self-Sovereign
Identity**

Roles of Credential Based Access Management



CREDENTIAL ISSUER

Assigns & revokes
credentials
HR / Project Manager / ...



APPLICATION OWNER

Manages APP
entitlements, config
& CrBAC rules



RULE MANAGER

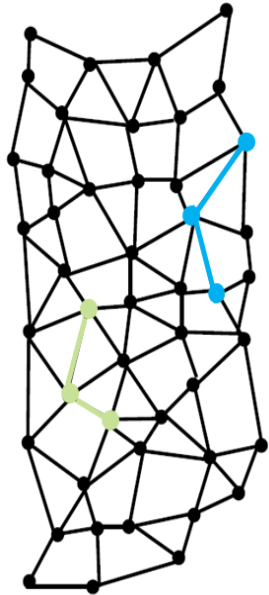
Manages global
CrBAC rules



USER

Owens credentials &
answers proof
requests for signon

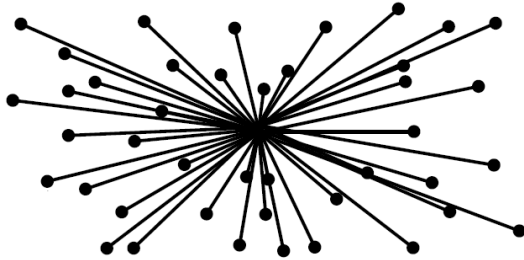
SSI delivers immediate connecting points for current IDPs and lifts integration potential



Self-Sovereign Identity

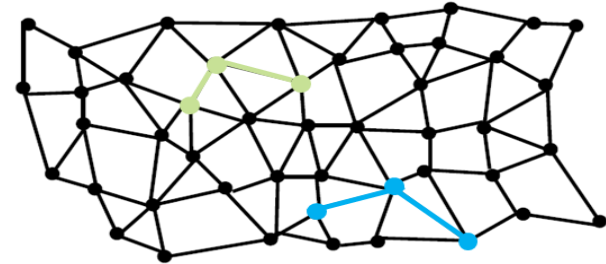
- ... is the ideal ecosystem to integrate any entity.
- ... easily integrates even entities which had no interaction before.
- ... delivers an integration fabric to represent real trust networks digitally.
- ... transports trust and passes it on digitally.
- ... offers trust service providers a platform for rendering their services globally (e.g. Verimi).
- ... flexibly adapts to domain specific requirements (e.g. "Know your customer"/KYC).
- ... uses existing standards and lifts them to a decentralized basis (e.g. PKI becomes DPKI).
- ... seamlessly integrates into grown and interwoven structures (e.g. LDAP group entitlement).

With dynamics and flexibility, SSI declares centralistic single points of failure obsolete



Centralistic PKI

- Standardized method, global productive application
- Certificate Authorities (CAs) as trust providers
- Regulatory framework clearly defined
- Certificate content solidly defined (X.509)
- Central entity as single point of failure



Decentral flexible SSI network

- Any participant can define certificate schema
- “Verifiable Credentials” can be flexibly defined
- Anybody (!) can be issuer and verifier
- CAs and industry players already involved in SSI
- “DIDs” as World Wide Web Consortium (W3C) standard

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