

## Vertical / Cross-Cutting

### Application Layer (Use Case)

#### Sample Apps

TrustPing

#### Semantic Data Def

ActivityPub  
schema.org  
Open Badges  
Learner Record  
FHIR

#### Verticals

Education  
Work Certificates  
Social  
Health

#### AuthN/AuthZ

W3C WebAuthn (FIDO2)  
UMA 2.0  
OIDC SIOP  
ZCAPS 0.3  
GNAP

### Credential Layer (Verifiable Data)

#### Cred Format

OpenID Connect id\_token  
Open Badges  
Verifiable Credential  
Verifiable Presentation

#### Cred Proof

VC JSON-LD Proofs  
VC-JWT  
AnonCreds v1  
AnonCreds v2 \*\*  
whitenpaper

#### Cred Revocation

X509 OCSP/CRL \*\*  
VC Status Revocation List  
AnonCreds v1  
AnonCreds v2 \*\*  
ESSIF \*\*

#### Cred Exchange

Aries Present Proof v2  
Presentation Exchange  
VP Request (CCO)  
Credential Manifest  
OIDC Credential Provider

#### Cred Binding

DID  
OpenID Connect id\_token  
Link Secrets (ICL-RSA / idemix)

#### Disclosure/ZKP

Anoncreds v1 ZKPs  
BBS+ signatures  
Snark-Credentials

#### Compliance

eIDAS  
CCPA  
EFF  
FISMA  
GDPR

### Agent Layer (Communication, Storage, Key Management)

#### Envelope

JWM (IETF draft)  
DID Comm v1  
Self-Issued OpenID Connect Provider DID Profile v0.1  
DID Comm v2 (JWM)

#### Transport

NFC  
BLE  
QR  
HTTP  
CHAPI

#### Control Recovery

Trezor BIP-39  
Harcross Protocol  
SeedQuest  
Fuzzy Vault  
Universal Wallet CCO  
Bkms  
Shamir-secret recovery mechanisms

#### Key Operations

"Cloud" HSM  
On-Prem/Local HSM (Hardware Security Module)  
TEE chips  
NFC, "Smart Cards," etc.

#### [Meta]Data Portability

Universal Wallet CCO

#### Storage

"centralized" storage (MySQL, CouchDB, MongoDB)  
iPFS  
On-Chain (Proprietary)  
Web Server (Proprietary)  
Solid  
Ceramic  
Secure Data Store (SDS) = EDV v2 + Identity Hub v2  
Semantic Containers

#### Data Formats

NOT AN EXHAUSTIVE LIST  
JSON \*\*  
XML \*\*  
ASN.1 \*\*  
CBOR \*\*

### Public Trust Layer (Anchor)

#### DID Document

DID CCO 1.0  
DID Core WG editors draft  
DID Document ESSIF \*\*

#### DID Scaling

Sidetree Editor's Draft  
Sidetree v1.0  
KERI

#### DID Methods/Ops \*

NOT AN EXHAUSTIVE LIST  
did:element  
did:ethr  
did:key  
did:github  
did:btc  
did:ion  
did:sov  
did:v1  
did:work

#### DID [Doc] History

Revocable/Null DIDs \*\*  
Current-only State \*\*  
Queryable Historic States \*\*

#### Anchor Types

Non-DLT consensus ledger (i.e. KERI)  
Veres One \*\*  
Sovrin Network \*\*  
Bitcoin Mainnet \*\*  
Ethereum \*\*

#### DID Resolution

uniresolver.io  
DID Resolution  
DID Dereferencing  
Peer DIDs

#### DID-Anchored Svcs

Identity Hubs  
EDV (Encrypted Data Vault)  
Messaging Endpoint  
Secure Data Store (SDS) = EDV v2 + Identity Hub v2

#### Timestamping

Proprietary  
Open Timestamps

#### Crypto Primitives

NOT AN EXHAUSTIVE LIST  
R5256  
ES256 \*\*  
secp256k1

**Legend**

Stable, Externally-known

Stable

Experimental or In-Progress

\*\* = [better] citation needed! Comments or github issues welcome

Secure, authentic peer-to-peer communication

DID  
DID Resolution  
DID Dereferencing