W3C DID WG

DID Core v1.1 Roadmap

Anatomy of a Verifiable Credential

- issuer
  - **<IDENTIFIER>**
- credentialSubject
  - license: I1234562
  - hair: BLK
  - name: ALEXANDER JOSEPH
  - address: 2570 24th STREET …
  - date of birth: 08/31/1977
  - issued by: California DMV
  - confidenceMethod
    - **<IDENTIFIER>**
- proof: MIIB7ZueKqp…

Identifiers In Use Today

jdoe@bigcorp.com

555-867-5309

https://flitter.com/jdoe

These types of identifiers:

- depend on a centralized authority, and/or
- can be compromised given modest resources, and/or
- are not portable, and/or
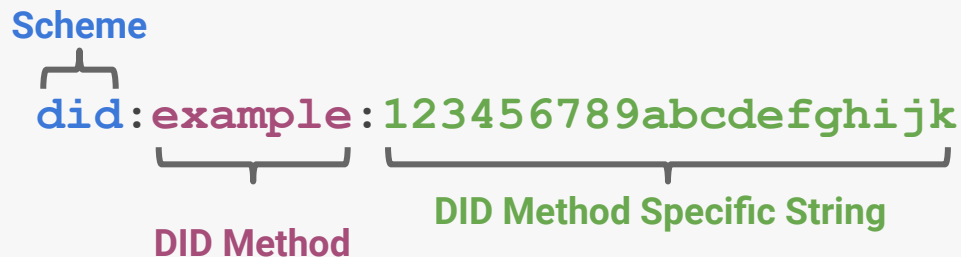- do not preserve privacy

Decentralized Identifiers

A ~~new~~ type of URL that is:

- globally unique,
- highly available,
- cryptographically verifiable,
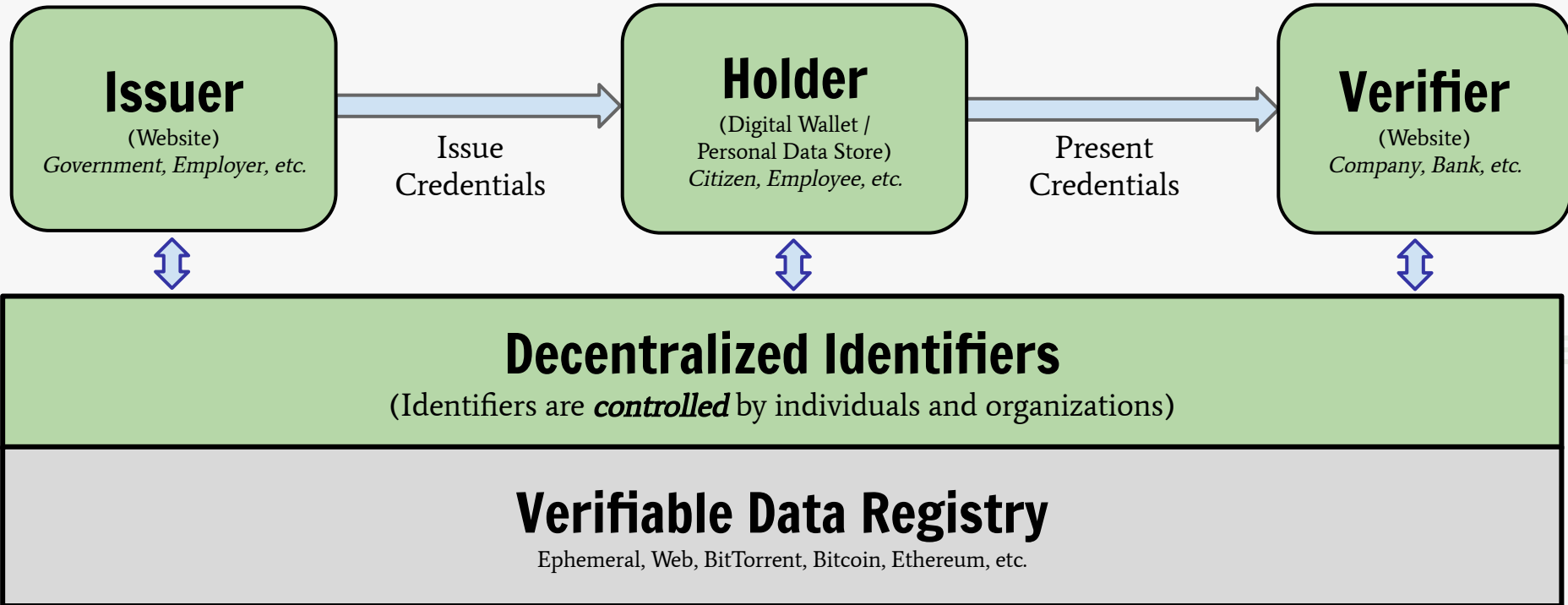- with no required central authority.

What does it look like?

Scheme

did:example:123456789abcdefghijk

DID Method

DID Method Specific String

Example:

did:key:z6Mk9eqhDa9CQMLYr8KRJRGcGAsTku4nQsipLDnHszaFaXV

How are they used?

Issuer		Holder		Verifier
Issuer (Website) *Government, Employer, etc.*	Issue Credentials	**Holder** (Digital Wallet / Personal Data Store) *Citizen, Employee, etc.*	Present Credentials	**Verifier** (Website) *Company, Bank, etc.*

Decentralized Identifiers
(Identifiers are *controlled* by individuals and organizations)

Verifiable Data Registry
Ephemeral, Web, BitTorrent, Bitcoin, Ethereum, etc.

Roadmap

Incubation	W3C DID WG v1.0	Rechartering Drama	W3C DID WG v1.1
(May 2014 - 2019)	(October 2019 - 2021)	(October 2021 - 2024)	(Jun 2024 - 2026)

What can we do in DID Core v1.1?

- Class 1-3 changes (no new features)
- BUT, we can:
  - fix bugs
  - refactor text
  - improve clarity/readability
  - modify conformance rules

Examples of what we could do

- Modernize examples
- Align with Controller Document specification
- Simplify/remove the abstract data model
- Move "DID Resolution" to DID Resolution
- Help other groups standardize DID Methods
- … other thoughts?

Thanks

Do you have any questions?

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W3C Decentralized Identifiers Working Group

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