



Insights on Digital Financial Services (DFS) During COVID-19 Webinar Series



Episode #3

Benefits of Digital ID to enable governments and private sector response to the pandemic – Part 2

COVID-19 Impact on e-KYC

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FIGI SIT WG – Authentication Workstream Chair



Security, Infrastructure, Trust WG



- Security, Infrastructure, Trust Working Group
 - To enhance confidence in using Digital Financial Services (DFS)
 - To address DFS security issues and mass digital fraud in developing countries
 - To assess new technology impact on security & consumer protection
- Authentication Workstream
 - To provide use cases, requirements, definitions and examples of strong authentication solutions
 - To offer guidance for regulators, authentication providers and Digital Financial Services (DFS) providers

Authentication WG Scope and Focus



- Strong interoperable authentication to support DFS
- Use cases (Web/Mobile)
- Means of evaluating authentication assurance (ITU-T X.1254)
- Digital Lab setup
 - APIs for authentication (FIDO Standards (ITU-T X.1277 / ITU-T X.1278))
 - End point validation, subscription and registration
 - Device Registration enabling service provider to register an Authenticator with user account and policy.
 - Device authentication.
 - Deregistration: Relying party can trigger the deletion of the account-related authentication key material

WG Output



- Contributions from working group members
- From industry consortia and standards development bodies
- Report Implementation of Secure Authentication Technologies for DFS
 - (see https://www.itu.int/en/ITU-T/extcoop/figisymposium/Documents/ITU_SIT_WG_Implementation%20of%20Secure%20Authentication%20Technologies%20for%20ODFS.pdf)
- Contributed to FATF Digital Identity Report
 - (see <https://www.fatf-gafi.org/media/fatf/documents/recommendations/pdfs/Guidance-on-Digital-Identity.pdf>)
- Produced a report on e-KYC uses cases

Authentication Systems



- Used in two ways:
 - Establish that the person is who they claim to be when enrolling for an account
 - Verify that a returning customer is the same one that previously opened an account
- For Account Creation
 - Ask for and verify identification information
 - For DFS – ‘Know Your Customer’ (KYC) procedures
 - Obtain from previously-established accounts based on regulatory obligations

On-Line Identity Vetting



Pain points

- E-KYC is hard to do online
 - Harder with no Universal Global ID
- COVID-19 proved that a flexible approach is needed to bootstrap digital identity online
 - Need a trusted digital identity echo system for every citizen



Technical Specifications



Core Standard work is already available to enable digital identity

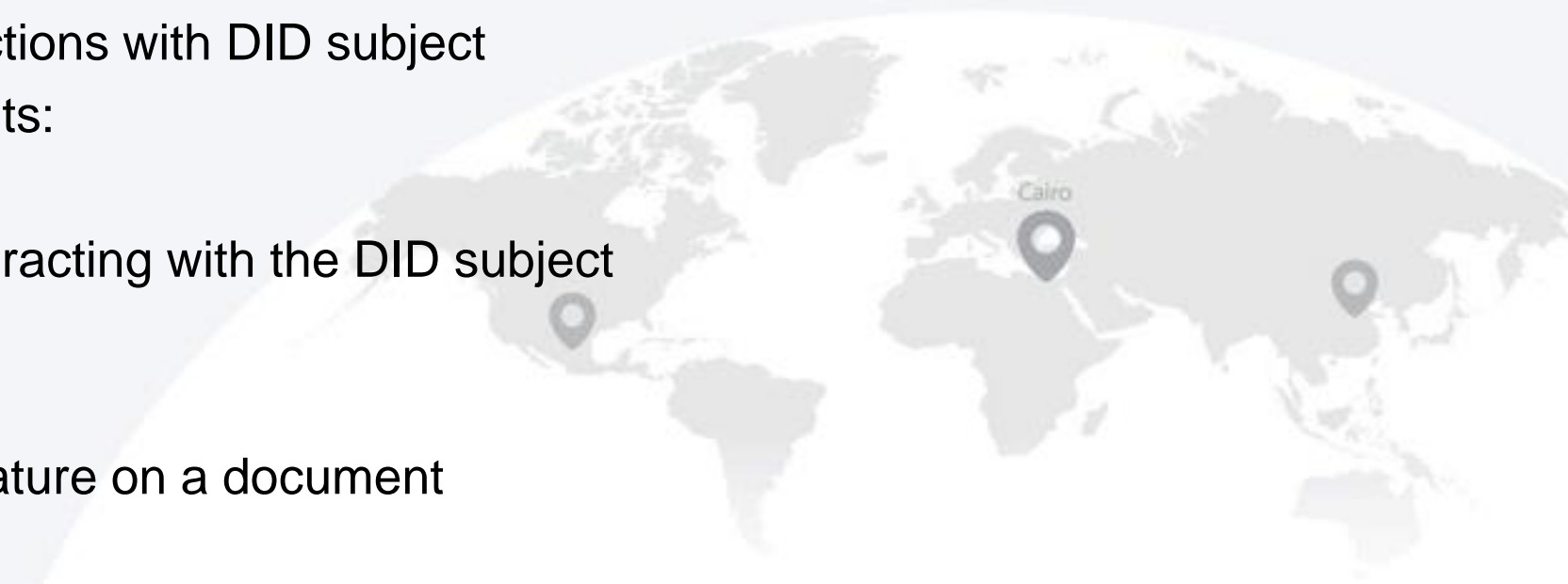
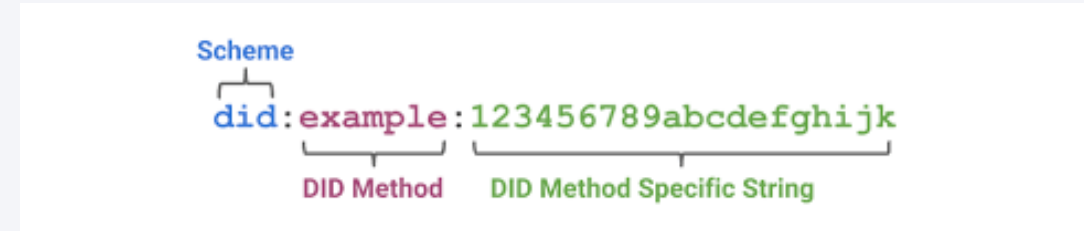
- FIDO Alliance specifications
 - ITU-T Recommendations x.1277, x.1278
- ITU-T Distributed ledger recommendations
- OpenID Connect + Mobile Connect



W3C Decentralized Identifiers

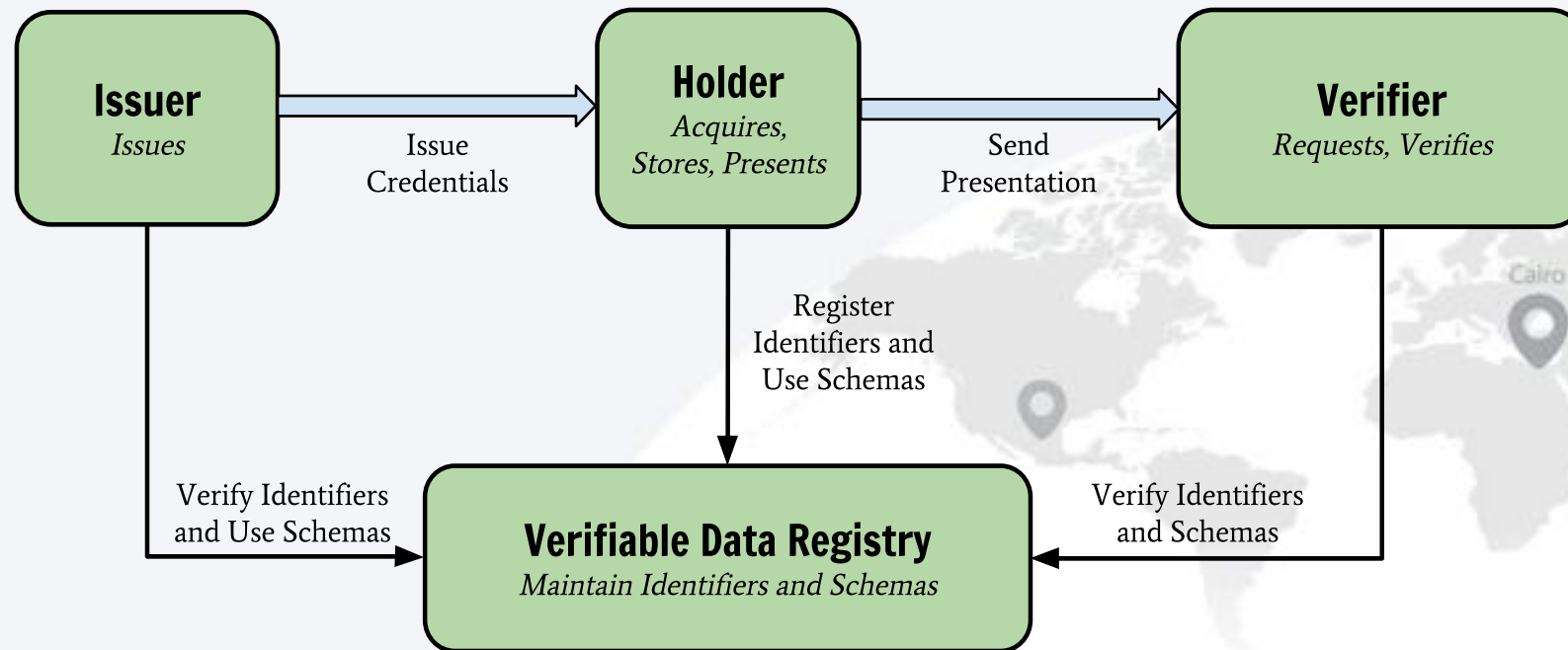


- New type of identifier for verifiable, "self-sovereign" digital identity
- Under the control of the DID subject, enabling independence from any specific:
 - centralized registry
 - identity provider
 - certificate authority
- URL enabling trustable interactions with DID subject
- DIDs resolve to DID Documents:
 - Verification methods
 - Service endpoints for interacting with the DID subject
- Examples:
 - Authentication
 - Requesting a digital signature on a document



W3C Verifiable Credentials

- W3C Verifiable Credentials WG
- The format for interoperable, cryptographically-verifiable digital credentials



DID Alliance



- See <http://didalliance.org/>
- The DID Alliance is an open industry association created to drive the development of a standardized, interoperable framework for decentralized identity services to ensure the authenticity of and establish trust in digital identities.
- The group will contribute to the creation of a global ecosystem, the formation and operation of a collaborative network, the diffusion of standardized technologies and the development of the decentralized identity industry.

Bootstrapping Digital Identity

- Trust sourcing
- Cross-ledger transaction support
- Inclusiveness
- Interoperability

