verifiable LEI (vLEI) Update

Session for IIW IIWXXXVII #37

October 10, 2023

Agenda

1. Update on vLEI Issuer Qualification Program

2. Update on vLEI Software Development

3. Update on vLEI Infrastructure

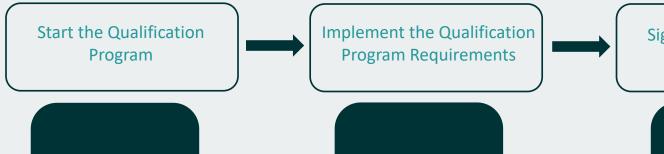4. Update on vLEI Ecosystem Governance Framework

5. Update on Standards

2023-10-10

Update on vLEI Issuer Qualification Program

2023-10-10

vLEI Issuer Qualification Program

Start the Qualification Program

→

Implement the Qualification Program Requirements

→

Sign the Qualification Agreement

3 Candidates

5 Candidates

1 Qualified vLEI Issuer

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QUALIFIED

2023-10-10

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Update on vLEI Software Development

SDK Release Candidate for Qualified vLEI Issuers
See at IIW demo hour

- Features
  - Identifier Management
    - Managing QVI Authorized Representative (QAR) Identifiers
    - Managing QVI Group Identifier
    - Delegation management from GLEIF
    - OOBI exchange and challenge response workflows
  - Custodial Wallet Hosting
    - Providing identifier management for customers (Legal Entities and OOR and ECR Persons)
    - OOBI exchange and challenge response workflows for QVI's customers
    - Credential management for customers (receiving vLEI credentials and presenting vLEI credentials)

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SDK Release Candidate for Qualified vLEI Issuers

- Features, continued
  - vLEI Credential management for QVIs
    - Receiving QVI vLEI credential and presenting QVI vLEI credential
    - Listing and searching for issued and received vLEI credentials

  - vLEI Credential issuance capabilities
    - Issuing Legal Entity vLEI credential
    - Issuing OOR vLEI credential
    - Issuing ECR vLEI credential
    - Revoking vLEI credentials

2023-10-10

Next software developments

- Next developments
  - Complete Python client backend
    - To include updated schema for structured Official Organizational Roles
  - Update on mobile
    - GLEIF encourages industry to develop mobile wallets covering 'on the go' vLEI signing and verifying capabilities
  - Structured official organizational roles (OORs) in vLEI OOR Credentials

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Preview: Structured Official Organizational Roles (OORs)

- GLEIF publishes the 'Official Organizational Roles (OOR) Code List' released in June 2023 which contains over 2000 official organizational roles for almost 250 entity legal forms in 89 jurisdictions.

- The ISO 5009 standard defines a standard set of reference data for official roles as well as the structure of a unique code which is assigned to each OOR for this list.

- GLEIF is leveraging ISO 5009 OOR codes and reference data in vLEI role credentials to specify the official roles of persons representing their organizations.

- Draft structured OOR usage rules
  - Long name of an OOR: example Chief Executive Officer; cardinality 1:1
  - Abbreviation of an OOR: example CEO; cardinality 0:1
  - OOR code: six-character code as specified in ISO 5009; cardinality 0:1
  - Latin Transliteration of the Long name of an OOR: cardinality 0:1
  - Rules for usage of both ISO 5009 OOR codes and reference data as well as official roles that have been validated by QVIs using other official documentation of the organization will be specified.
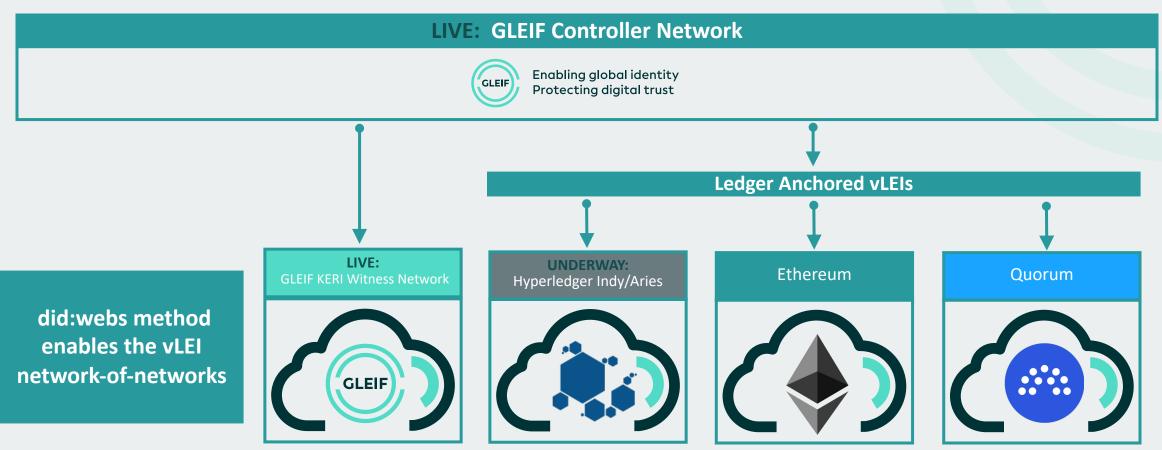
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Update on vLEI Infrastructure

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Update on vLEI Infrastructure

- did:webs (secure web DIDs) work underway for Hyperledger Indy/Aries Ledger Anchored vLEIs
- Additional work on web LEIs will enable interoperability with applications using JSON-LD VCs.

LIVE: GLEIF Controller Network

GLEIF — Enabling global identity
Protecting digital trust

Ledger Anchored vLEIs

did:webs method enables the vLEI network-of-networks

LIVE:
GLEIF KERI Witness Network

UNDERWAY:
Hyperledger Indy/Aries
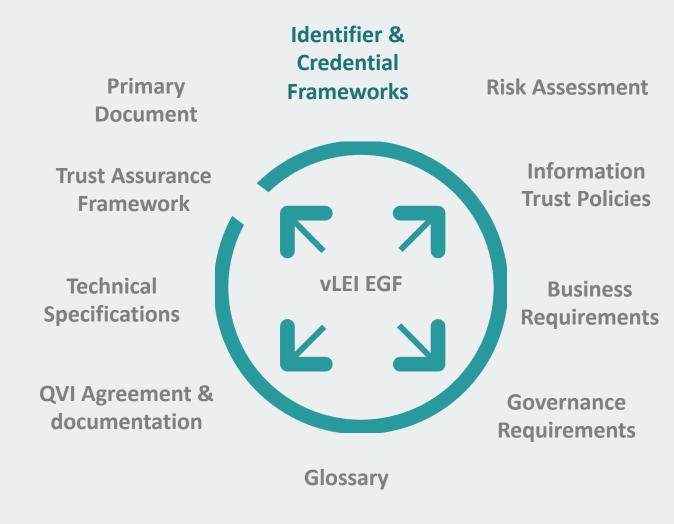
Ethereum

Quorum

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Update on vLEI Ecosystem Governance Framework

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Update on the vLEI Ecosystem Governance Framework
Governing the vLEI ecosystem and infrastructure

- Defines the vLEI operational model and describes how vLEI issuing stakeholders will qualify for and perform their roles in the vLEI ecosystem and infrastructure.
- Version 1.0 of the vLEI EGF, created using the Trust over IP Foundation EGF metamodel, was published in December 2022.
- Based on comments and feedback received from organizations going through the vLEI Issuer Qualification Program, as well as from pilots and POCs, substantial updates have been made to some Identifier and Credential Frameworks.

- Interim review underway at ToIP for 5 EGF documents
  — QVI Identifier and vLEI Credential Framework
  — Legal Entity vLEI Credential Framework
  — QVI Authorization vLEI Credential Framework
  — Official Organizational Role vLEI Credential Framework
  — Engagement Context Role vLEI Credential Framework
- Comments and suggested edits will be reviewed and considered for inclusion in the required annual review of the vLEI EGF that will occur later in 4th quarter of this year

Identifier & Credential Frameworks

Primary Document

Risk Assessment

Trust Assurance Framework

Information Trust Policies

vLEI EGF

Technical Specifications

Business Requirements

QVI Agreement & documentation

Governance Requirements

Glossary

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Update on Standards

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vLEI Standards Work

- The KERI (Key Event Receipt Infrastructure) and ACDC (Authentic Chained Data Container) specifications and the CESR (Composable Event Streaming Representation) specification and proof format officially have been moved to Trust over IP within a task force of the Technical Stack Working Group.
  - Took some time; has been completed; provides the foundation to pursue standards plans for this work

- GLEIF continues to participate in the W3C Verifiable Credentials working group.

- GLEIF is leading a working group within ISO to develop a Part 3 of the ISO 17442 LEI standard which will specify the use of the LEI code in vLEIs to enable decentralized identification (using the LEI) and verification (using vLEIs) for organizations as well as the persons who represent their organizations in either official or functional roles.

2023-10-17

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