



vLEI Issuer Qualification Program – Technical Part

This document describes the process steps, supporting documents and software used in the technical stage of Qualification.

To complete the technical part of Qualification, the following three steps must be successfully conducted:

1. Technical Readiness Assessment
2. Qualification Technical Dry-Run
3. QVI vLEI Credential Issuance

1. Technical Readiness Assessment

The Technical Readiness Assessment step involves an informational session scheduled by GLEIF to assess the Candidate QVI capabilities regarding deployed infrastructure and required actions to complete the qualification process.

This step takes place after the Candidate QVI has fully submitted the Qualification Documentation as outlined in the [vLEI Issuer Qualification Program Checklist](#) (Appendix 3). GLEIF Qualification team will determine the timing of this session based on the progress made during the documentation review and will coordinate scheduling as needed.

Also, prior to scheduling the Technical Readiness Assessment session, it is essential for the Candidate QVI to submit to GLEIF its witness network information, which the Candidate QVI plans to use during the dry-runs, to ensure accessibility to deployed infrastructure.

Discussion topics during this session include the following infrastructure and required action capabilities.

1.1 Infrastructure Capabilities

The Candidate QVI should have its own infrastructure deployed with a minimum of three witnesses and appropriate KERIpy or KERIA infrastructure:

- Witness Deployment
 - Examples:
 - KERIpy (reference implementation) witness infrastructure
- KERI Keystore deployment
 - Examples:
 - KERIpy keystores (reference implementation)

- KERIA agent keystores (community supported multi-tenant agent service)

1.2 Required Action Capabilities

The Candidate QVI should be comfortable using its software to perform the following steps:

- Generate valid OOBI URLs
- Perform OOBI URL exchange and resolution
- Perform the challenge phrase challenge and response workflow
- Single signature AID creation with witnesses
- Single signature AID key rotation
- Multi-sig AID creation including witnesses and delegation
- LE/ECR/OOR vLEI credential issuances
- LE/ECR/OOR vLEI credential revocations
- QVI/LE/OOR vLEI credential presentations to the reporting API

Candidate QVIs may use this session to discuss any outstanding issues or concerns.

2. Qualification Technical Dry-Run

Prior to performing the actual QVI vLEI issuance, a dry-run of the process is conducted to confirm that the capabilities assessed in the Technical Readiness Assessment are functional in the precise sequence that will occur for the qualification process.

The Qualification technical dry-run is the execution of the playbook between GLEIF and a Candidate QVI. GLEIF uses command line software where all OOBI and challenge response phases are conducted via Zoom chat and text inputs.

Examples:

For resolving a GLEIF OOBI or providing an OOBI for GLEIF to resolve:

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http://139.99.193.43:5623/oobi/ECfBWP6myh2p0r7Zd3maxM9AWbXWLzLVKPTE1Lfp1BpV/witness
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For responding to a GLEIF Challenge or providing an challenge for GLEIF to respond to:



elegant quick palm liberty barely path pulse rate inside zebra
trophy confirm

The full suite of software GLEIF uses is available at: <https://github.com/GLEIF-IT/gar>.

Qualification technical dry-runs may happen over multiple sessions and technical issues are addressed as they arise.

3. QVI vLEI Credential Issuance

This step is performed after the successful completion of the previous two steps, confirming that the Candidate QVI has adequately met the vLEI Qualification Program requirements. At this point, the Qualification Agreement is signed by GLEIF and the Candidate QVI, officially designating it as a Qualified vLEI Issuer (QVI).

The QVI vLEI credential issuance involves the execution of a subset of the playbook between GLEIF and a QVI. GLEIF uses command line software used during the qualification technical dry-run.