

verifiable LEI (vLEI) Ecosystem Governance Framework Primary Document



DID URL should be part of vLEI website section.

Arrange for URL in advance of posting the EGF on gleif.org

EGF URL (on gleif.org

Introduction

The verifiable LEI (vLEI) Ecosystem Governance Framework is a Layer Four Ecosystem Governance Framework of the Trust over IP Foundation (ToIP). The Legal Entity Identifier (LEI) is used as a key component in building a trust layer for identification and verification of organizational identity that can be used in any other Governance Frameworks that requires organizational identity.

The LEI had its beginnings in the aftermath of the global financial crisis responding initially to a call by global regulators to establish a standard international identifier ¹ and related reference data that could be accessed and used in regulatory frameworks and supervision.

The LEI and the Global LEI System were envisioned from the start as a public-private partnership that should bring transparency and benefits to both the public and the private sectors. And although the LEI was used initially to identify legal entities in financial services, the need for identification of legal entities is not limited to the financial services domain.

Now, years after the Global LEI System was established, which the Global Legal Entity Identifier Foundation (GLEIF) operates and maintains, this Governance Framework establishes GLEIF's role in digital identity and Verifiable Credentials to add trust to interactions in the global digital economy.

Terminology and Notation

ToIP Governance Requirements Glossary

• **Requirements** include any combination of Machine-Testable Requirements and Human-Auditable Requirements. Unless otherwise stated, all Requirements MUST be expressed as defined in <u>RFC 2119</u>.

 Mandates are Requirements that use a MUST, MUST NOT, SHALL, SHALL NOT or REQUIRED keyword.

 Recommendations are Requirements that use a SHOULD, SHOULD NOT, or RECOMMENDED keyword.

Options are Requirements that use a MAY or OPTIONAL keyword.
 Machine-Testable Requirements are those with which compliance can be verified using an automated test suite and appropriate scripting or testing software.

Rules are Machine-Testable Requirements that are written in a Machine-Readable language and can be processed by a Rules Engine. They are expressed in a structured rules language as specified by the GF.
 Human-Auditable Requirements are those with which compliance can only be

verified by an audit of people, processes, and procedures.
 Policies are Human-Auditable Requirements written using standard conformance terminology. For Policies used in ToIP Governance Frameworks, the standard terminology is RFC 2119 keywords. Note that all RFC 2119

keywords have weight from an auditing perspective. An implementer MUST

¹ ISO 17442-1 Financial Services – Legal Entity Identifier (LEI) – Part 1: Assignment

46 47	implemented and SHOULD explain why a MAY requirement was implemented.			
48 49 50	 Specifications are documents containing any combination of Machine-Testable Requirements and Human-Auditable Requirements needed to produce technical interoperability. 			
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52 53	Localization			
54 55	 The official language of the vLEI Ecosystem Governance Framework SHALL be American English. 			
56 57	The Governance Framework Website SHALL include introductory remarks in the languages of the G20 countries.			
58 59 60 61	3. For situations in which the vLEI Ecosystem Governance Framework MAY be needed in other language, GLEIF will consider these on a case-by-case basis.			
62 63	Governing Authority			
64 65 66 67	 The Global Legal Entity Identifier Foundation (GLEIF), as Governing Authority, is responsible for the vLEI Ecosystem Governance Framework. The LEI of GLEIF is 506700GE1G29325QX363. The contact information for GLEIF is: 			
68 69 70 71 72	St. Alban-Vorstadt 5, PO Box, 4002 Basel, Switzerland Contact: Karla McKenna, Head of Standards Karla.McKenna@gleif.org			
73 74	Purpose			
74 75 76 77 78	The purpose of the verifiable LEI (vLEI) Ecosystem Governance Framework is to deliver a global infrastructure that enables decentralized verifiable digital identity of legal entities in all use cases where it is required and can enable industry and participant benefits.			
79 80	Scope			
81 82	The following entities are stakeholders in the Trust Community: • GLEIF – Global Legal Entity Identifier Foundation operates and manages the Global			

explain why a SHOULD or RECOMMENDED requirement was not

Credentials;

GLEIS;

LEI System (GLEIS);

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Credentials and Legal Entity Engagement Context Role vLEI Credentials (ECR vLEI

• LEI Issuer – An organization accredited by GLEIF to validate legal entity information

• Qualified vLEI Issuer (QVI) – An organization qualified by GLEIF to issue vLEI Legal

and register new LEIs and reference data which are sent to GLEIF for inclusion in the

Entity Credentials, Legal Entity Official Organizational Role vLEI Credentials (OOR vLEI

- Legal Entity a legal person or structure that is organized under the laws of any jurisdiction that meets the eligibility criteria for registering for a LEI.
 - Official Organizational Role Persons (OOR Persons) Persons who represent Legal Entities in official roles
 - Engagement Context Role Persons (ECR Persons) Persons who represent Legal Entities in functional roles
 - vLEI User any user of vLEI credentials in any applicable use case.

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The scope of the vLEI Ecosystem Governance Framework is to enable these stakeholders to issue, hold and verify vLEI Credentials using the GLEIF Controller Network and to ensure that these activities take place in compliance with the vLEI Ecosystem Governance Framework.

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Out of scope for the vLEI Ecosystem Governance Framework is the LEI governance processes and rules which is managed separately by GLEIF with its own specification and <u>documents</u>. In addition, although GLEIF encourages other governance frameworks to make use of the vLEI Ecosystem Governance Framework and the vLEI Credentials, these governance frameworks also are out of scope.

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Objectives

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The objectives of the vLEI Ecosystem Governance Framework for a global infrastructure for organizational digital identity based on the LEI are:

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- **Drive LEI Adoption**
 - Expand the value LEIs can bring to the global economy by enabling cryptographically verifiable vLEIs;
 - Make it easy and profitable for a wide range of QVIs to begin issuing vLEIs;
 - Attract developers to build vLEIs into applications that depend on digital trust;
 - Assist regulators in understanding and incorporating LEIs and vLEIs so that they are integrated into numerous critical business processes and workflows.

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Establish GLEIF as a Global Root of Trust for Organizational Identifiers

- Position vLEIs as the simplest, strongest solution for any use case requiring digital verification of the attributes, transactions, or attestations of a legal entity or its official persons or persons in other functions;
- Enable a vLEI chain of trust: GLEIF, QVIs, Legal Entities, OOR Persons, ECR Persons;
- Support unlimited levels of delegated identifiers and associated Verifiable Credentials to provide both horizontal and vertical scalability.

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- 130 Enable New Uses for LEIs
- 131 A list of use-cases, including those identified through vLEI research, includes:

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- Verifiable corporate documentation and communications
 - Company and signatory-specific documents and reports;
 - Regulatory filing and reporting by a third-party filer on behalf of the filer/reporting entity or by an auditor;

- Contracts and legal agreements;
 Private, secure, peer-to-peer communication with customers, employees, and other stakeholders.
 Counterparty verification supporting digital business interaction/automation
 Client/counterparty due diligence and Know Your Customer (KYC) compliance;
 Import/export, supply chain, customs/border control, payment for goods (e-invoicing);
 - Authorized signatory verification;
 - e-invoice and e-payment instruction validation.

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Licensing and corporate registration

- Trusted supplier/provider network membership and registration;
- Payment systems membership and registration;
- Business entity registration and licenses;
- Educational institutions qualification certification and verification.

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Other use cases

- Digital wallets, digital asset management, and decentralized finance;
- Verification of transacting parties;
- Employee and authorized agent ID for any organizational use-case;

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Enhance Security, Reduce Fraud and Simplify Compliance

- Enhance security of Autonomic Identifiers, vLEIs, and Verifiable Credentials by replacing an administrative root of trust with a cryptographic root of trust;
- Ensure complete, cryptographically verifiable auditability of transactions and other interactions involving vLEIs and sub-identifiers;
- Resist quantum computer attacks;
- Combine with other verifiable factors to further increase security, such as:
 - identity / biometrics
 - delegated multi-signature capabilities

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Enhance Independent Control, Efficiency, Scalability and Sustainability

- Eliminate dependence on any single SSI utility network by delivering the vLEI infrastructure in an interoperable and technology agnostic approach;
- Reduce dependence on SSI utility network governance structures beyond the control
 of GLEIF;
- Ensure highly performant global scalability;
- Establish global best practices for key management;
- Aid the development of a competitive market for all the software, tools, and services necessary to implement vLEIs;
- Work with QVIs to ensure a sustainable commercial model for vLEIs for GLEIF, QVIs, and Legal Entities and other vLEI Ecosystem Members.

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Principles

184 1. The vLEI Ecosystem Governance Framework MUST enable GLEIF's role to support and contribute to unique global persistent organizational identity as a public good.

2. The vLEI Ecosystem Governance Framework MUST deliver on GLEIF's vision that every legal entity be able to be identified uniquely, having only one global identity and this identity should include a digital identity.

3. The vLEI Ecosystem Governance Framework MUST leverage the principle of free and open access and use of the data in the Global LEI System regarding legal entities and their entity-level and relationships.

4. The vLEI Ecosystem Governance Framework MUST support GLEIF's intention to deliver the vLEI infrastructure using a technology agnostic approach and to use open source whenever possible.

5. The vLEI Ecosystem Governance Framework MUST support GLEIF's use of open standards.

6. The vLEI Ecosystem Governance Framework MUST fulfill GLEIF's intention to make the vLEI infrastructure widely available and broadly useful as possible.

7. The vLEI Ecosystem Governance Framework MUST enable interoperability, for the digital identity data of an entity to be represented, exchanged, secured, protected, and verified interoperably using open, public, and royalty-free standards, as well as portability, the ability of identity rights holders to move or transfer a copy of their digital identity data to the agents or systems of their choice.

8. The vLEI Ecosystem Governance Framework MUST empower vLEI Credential Holders to secure their digital identity data at rest and in motion, to control their own identifiers and encryption keys, and to employ end-to-end encryption for all interactions and to protect the privacy of their digital identity data when applicable.

9. The vLEI Ecosystem Governance Framework MUST ensure verifiability and authenticity by empowering vLEI Credential Holders to provide verifiable proof of the authenticity of their digital identity data.

10. The vLEI Ecosystem Governance Framework MUST allow vLEI Ecosystem Member to be accountable to each other for conformance to the purpose, principles, and policies of the vLEI Ecosystem Governance Framework. All vLEI Ecosystem Members MUST be responsible and be able to demonstrate compliance with any other requirements of applicable law. Nothing in the vLEI Ecosystem Governance Framework SHOULD require vLEI Ecosystem Members to breach applicable law in order to perform its obligations under the vLEI Ecosystem Governance Framework.

General Requirements

1. All LEIs contained in vLEI Credentials MUST maintain an entity status of Active and an LEI registration status other than Lapsed, Retired, Duplicate, Annulled or Merged (will be deprecated in March 2022).

5. All revisions to the vLEI Ecosystem Governance Framework MUST be approved by 2020-12-15, V1.0 draft

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GLEIF using its Change Management Process.

Extensions

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- 1. GLEIF welcomes other Ecosystem Governance Frameworks to leverage the vLEI Ecosystem Governance Framework but does not anticipate the need for formal extensions of the vLEI Ecosystem Governance Framework at this time.
- 2. This vLEI Ecosystem Governance Framework is extended by the following GLEIF Identifier Governance Framework and 4 Credential Governance Frameworks:

GLEIF Identifier Governance Framework, [v]

A document that details the purpose, principles, policies, and specifications that apply to the use of the GLEIF Root Autonomic Identifier (AID) and its GLEIF Delegated AIDs in the vLEI Ecosystem.

Qualified vLEI Issuer vLEI Credential Governance Framework, [v]

A document that details the requirements to enable this Credential to be issued by
GLEIF to Qualified vLEI Issuers which allows the Qualified vLEI Issuers to issue, verify and revoke Legal Entity vLEI Credentials, Legal Entity Official Organizational Role vLEI
Credentials and Legal Entity Engagement Context Role vLEI Credentials.

Legal Entity vLEI Credential Governance Framework, [v]
A document that details the requirements for a vLEI Credential, the entity level credential issued by a Qualified vLEI Issuer to a Legal Entity.

Legal Entity Official Organizational Role vLEI Credential Governance Framework, [v] A document that details the requirements for vLEI Role Credentials issued to by a Qualified vLEI Issuer to official representatives of a Legal Entity.

Legal Entity Engagement Context Role vLEI Credential Governance Framework, [v] A document that details the requirements for vLEI Role Credentials issued to representatives of a Legal Entity in other than official roles but in functional or other context of engagement.

Business Requirements

- QVIs MAY charge fees for the issuance, verification and/or revocation of vLEI
 Credentials issued to Legal Entities and for Legal Enity Official Organizational Role
 vLEI Credentials.
- 2. Qualified vLEI Issuers MAY offer ancillary services to Legal Entities regarding vLEIs.
- 3. There MUST be availability targets defined for all vLEI services included in the Appendix 5 to the vLEI Issuer Qualification Agreement Service Level Agreement (SLA).
- 4. The QVI MAY review its fee schedule annually and unilaterally determine new fees.
- 5. The QVI MUST be solely responsible for managing the revenue that is produced and costs that are incurred in the running of its vLEI operations.
- 6. The QVI MUST ensure that its operations regarding vLEIs are sustainably financed.
- 7. GLEIF MUST not contribute funds of any form whatsoever for QVI operations.

335 336	8.	A Legal Entity MAY terminate its agreement with a QVI and contract with a new QVI at any time in accordance with the terms of their contract with the QVI.				
337 338	Inclu	sion, Equitability and Accessibility Requirements				
339 340		MUST design the vLEI Ecosystem to be able to make vLEIs available to any Legal Entity a LEI in the Global LEI System.				
341 342	Sche	dule of Controlled Documents				
343 344		IUST identify the exact version of each Controlled Document with a unique, permanent or DID URL.				
345 346 347	- SHO	JLD include a Web link to each Controlled Document in the Web version of the EGF will will added added prior to public review)				
348 349	Gloss	ar <u>y</u>				
350 351 352		fiable LEI (vLEI) Ecosystem Governance Framework Glossary, [v] ocument that lists all defined terms have been referenced in the vLEI EGF documents.				
353 354	Risk A	<u>Assessment</u>				
355 356 357 358	A spre	rifiable LEI (vLEI) Ecosystem Governance Framework Risk Assessment, [v] preadsheet that assesses certain risk categories regarding the operation of the vLEI osystem and Infrastructure.				
359 360	Trust	Assurance and Certification				
360 361 362 363 364 365	verifiable LEI (vLEI) Ecosystem Governance Framework Trust Assurance Framework, [v] This spreadsheet focuses on the 'MUST' statements within the other vLEI EGF documents and specifies the services/processes that will be used to evaluate compliance with these statements.					
366 367	Gove	rnance Requirements				
368 369 370	1.	The governance of the Global Legal Entity Identifier Foundation (GLEIF) can be found at https://www.gleif.org/en/about/governance#				
371 372 373 374	2.	The Memorandum of Understanding between the GLEIF and the Regulatory Oversight Committee (ROC) can be found at https://www.gleif.org/en/about/governance/mou-between-gleif-and-lei-roc#				
375 376 377	3.	The Charter of the Regulatory Oversight Committee (ROC) can be downloaded as a pdf, <u>LEI Regulatory Oversight Committee Charter</u>				
377 378 379	4.	The Statutes of GLEIF can be downloaded as a pdf, GLEIF Statutes				
380 381	5.	The By-laws of GLEIF can be downloaded as a pdf, GLEIF By-laws				
382 383 384	6.	GLEIF has a Board of independent directors, https://www.gleif.org/en/about/governance/board-of-directors#				

385 386 387	7.	The LEI standard, ISO 17442-1:2020 Financial services – Legal entity identifier (LEI) – Part 1: Assignment can be found here: https://www.iso.org/standard/78829.html
388 389 390 391		The LEI standard, ISO 17442-2:2020 Financial services – Legal entity identifier (LEI) – Part 2: Application in digital certificates can be found here: https://www.iso.org/standard/79917.html
392 393	<u>Techr</u>	nical Requirements
394 395 396		ble LEI (vLEI) Ecosystem Governance Framework Technical Requirements Part 1: KERI ructure, [v]
397 398 399		ble LEI (vLEI) Ecosystem Governance Framework Technical Requirements Part 2: vLEI ntials, [v]
400	Inforr	mation Trust Requirements
401 402 403 404 405	A docu	ble LEI (vLEI) Ecosystem Governance Framework Information Trust Policies, [v] ument that defines the information security, privacy, availability, confidentiality and ssing integrity policies that apply to all vLEI Ecosystem Members.
406	Legal	Agreements
407 408 409 410 411 412	An agr	suer Qualification Agreement, [v] reement between GLEIF and an organization that has been qualified by GLEIF to te as a Qualified vLEI Issuer. The vLEI Issuer Qualification Agreement will be the same Qualified vLEI Issuers.
413 414	Appe	ndices to vLEI Issuer Qualification Agreement
414 415 416 417		ndix 1: Non-Disclosure Agreement (NDA), [v] reement that outlines requirements for handling confidential information.
418 419 420		ndix 2: vLEI Issuer Qualification Program Manual, [v] ocument that describes the Qualification program.
421 422 423		ndix 3: vLEI Issuer Qualification Program Checklist, [v] ocument that details the control and process requirements for Qualification
424 425 426	A list o	idix 4: vLEI Issuer Contact Details, [v] of contact details of GLEIF and the Candidate vLEI Issuer during Qualificaiton and of and the Qualified vLEI Issuer during ongoing operations.
427 428 429 430	A docu	Idix 5: Service Level Agreement (SLA), [v] Imment that details the services to be provided by GLEIF and the Qualified vLEI Issuer Ication Program as Appendix 5 to the vLEI Issuer Qualification Agreement.
431 432 433	For the	e purposes of v1.0 draft of the vLEI Ecosystem Governance Framework, an initial nent, vLEI Services Catalog, has been prepared.

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435	Appendix 6: Qualified vLEI Issuer TrustMark Terms of Use, [v]
436	A document that details the terms of use of the TrustMark by the Qualified vLEI Issuer.
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438	Appendix 7: Qualified vLEI Issuer-Legal Entity Required Contract Terms, [v]
439	A document that specifies the contract terms that must be included in the agreement
440	between a QVI and a Legal Entity for vLEI services.
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443 444	Identifier and Credential Governance Frameworks
445	GLEIF Identifier Governance Framework, [v]
446	A document that details the purpose, principles, policies, and specifications that apply to
447	the useof the GLEIF Root Autonomic Identifier (AID) and its GLEIF Delegated AIDs in the vLEI
448 449	Ecosystem.
450	Qualified vLEI Issuer vLEI Credential Governance Framework, [v]
451	A document that details the requirements to enable this Credential to be issued by GLEIF to
452	Qualified vLEI Issuers which allows the Qualified vLEI Issuers to issue, verify and revoke Legal
453	Entity vLEI Credentials, Legal Entity Official Organizational Role vLEI Credentials and and vLEI
454 455	Credentials and Legal Entity Engagement Context Role vLEI Credentials.
456	Legal Entity vLEI Credential Governance Framework, [v]
457	A document that details the requirements for a vLEI Credential, the entity level credential
458	issued by a Qualified vLEI Issuer to a Legal Entity.
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460	Legal Entity Official Organizational Role vLEI Credential Governance Framework, [v]
461	A document that details the requirements for vLEI Role Credentials issued to by a Qualified
462 463	vLEI Isuer to official representatives of a Legal Entity.
464	Legal Entity Engagement Context Role vLEI Credential Governance Framework, [v]
465	A document that details the requirements for vLEI Role Credentials issued to
466	representatives of a Legal Entity in other than official roles but in functional or other context
467	of engagement.
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