

verifiable LEI (vLEI) Ecosystem Governance Framework v1.0

Legal Entity Engagement Context Role vLEI Credential Framework

Public Document Version 1.1 2023-08-30



Version	1.1	
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Document Name		
Document DID URL		
Governing Authority	Global Legal Entity Identifier Foundation (GLEIF)	
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Change History

This section records the history of all changes to this document.

EGF Version	Document Version	Date	Description of Change
1.0	1.1	August 30, 2023	Clearly indicated 'or' for requirements in section 6.1 Qualifications; updated the '10.1' and '10.2' to '9.1' and '9.2' in section 6.2 Credential; clarified section headings in sections 6.3, 6.4, 6.5 (Legal Entity, Legal Entity Authorized Representative (LAR) and ECR Person Identity Verification) and 6.6 Issuance to indicate requirements for issuance by a QVI and issuance by a Legal Entity; added the option for Legal Entity Authorized Representatives (LARs) to use of Third-Party Services for Identity Assurance in section 6.5; clarified section headings in section 6.7 Revocation to indicate requirements for revocation by a QVI and revocation by a Legal Entity;

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	updated section 9 Credential Definition to clarify the requirement for the 'personLegalName' field value.

1 Introduction

- 2 This is a Controlled Document of the verifiable LEI (vLEI) Ecosystem Governance Framework (vLEI
- 3 Ecosystem Governance Framework). It is the authoritative Governance Framework for the Legal
- 4 Entity Engagement Context Role vLEI Credential (ECR vLEI Credential). It specifies the purpose,
- 5 principles, policies, and specifications that apply to the use of this Credential in the vLEI Ecosystem.

6 2 Terminology

7 All terms in First Letter Capitals are defined in the vLEI Glossary.

8 3 Purpose

- 9 The purpose of the ECR vLEI Credential is to enable the simple, safe, secure identification of an ECR
- 10 vLEI Credential Holder to any Verifier that accepts an ECR vLEI Credential.

11 4 Scope

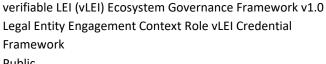
- 12 The scope of this Credential Governance Framework is limited to Issuers, Holders, and Verifiers of the
- 13 ECR vLEI Credential.

5 Principles

- 15 The following principles guide the development of policies in this Credential Governance Framework.
- 16 Note that they apply in addition to the Core Policies defined in the vLEI Ecosystem Governance
- 17 Framework.

18 5.1 Binding to Holder

- 19 The ECR vLEI Credential shall be designed to provide a strong enough binding to the ECR vLEI
- 20 Credential Holder that a Proof Request for the ECR vLEI Credential can be satisfied only by the
- 21 Legal Entity vLEI Credential or the ECR Person.



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5.2 Context Independence

The ECR vLEI Credential shall be designed to fulfil a Proof Request for the legal identity of the ECR Person regardless of context, including in-person, online, or over the phone.

6 Issuer Policies

6.1 Qualifications

The Issuer MUST:

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- 28 1. be a QVI with which a Legal Entity holding a valid Legal Entity vLEI Credential has
 29 contracted with for the issuance of ECR vLEI Credentials, offered by QVIs as a value30 added service; or
 - 2. be a Legal Entity holding a valid Legal Entity vLEI Credential who will issue ECR vLEI Credentials directly to ECR Persons.

6.2 Credential

- 34 The Issuer MUST:
 - 1. use the ECR vLEI Credential schema elements defined in section 9.1.
- 2. include the Claims marked as Required in section 9.1.

37 6.3 Legal Entity Identity Verification

38 **6.3.1** For issuance by a QVI:

- 39 1. Identity Assurance
 - a. A Qualified vLEI Issuer Authorized Representative (QAR) MUST verify that the LEI supplied for the Credential is the LEI of the Legal Entity for which the issuance request for the Credential has been made.
 - b. A QAR MUST verify the Legal Entity Identifier (LEI) of the Legal Entity has a LEI Entity Status of Active and a LEI Registration Status of Issued, Pending Transfer or Pending Archival in the Global LEI System.
 - 2. Identity Authentication
 - a. Identity Authentication for the Legal Entity is not applicable for the issuance of an ECR vLEI Credential.



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49	6.3.2 For issuance by a Legal Entity:
50 51	 Identity Assurance for the Legal Entity is not applicable for the issuance of an ECR vLEI Credential.
52 53	Identity Authentication for the Legal Entity is not applicable for the issuance of an ECR vLEI Credential.
54	6.4 Legal Entity Authorized Representative (LAR) Identity
55	Verification
56	6.4.1 For issuance by a QVI:
57 58	Identity Assurance and Identity Authentication for the LAR are specified section 6.3 of the Legal Entity vLEI Credential Governance Framework.
59	6.4.2 For issuance by a Legal Entity:
60 61	 The LARs of the Legal Entity MUST act as the Issuer of ECR vLEI Credentials when these credentials are issued directly by a Legal Entity.
62	6.5 ECR Person Identity Verification
63 64	6.5.1 For issuance by a QVI for a Legal Entity with more than one authorized signer or employee
65	1. Preparing for authorization of an ECR vLEI Credential by a LAR
66	a. A credential wallet MUST be set up for the ECR Person.
67 68 69	 Identity Assurance of a person serving in an Engagement Context Role (ECR Person) MUST be performed prior to authorization of the issuance of an ECR vLEI Credential.
70 71	c. Identity Assurance of an ECR Person MAY be performed either by a LAR or through the use of Third-Party Services by the Legal Entity.
72 73 74 75	d. Identity Assurance MAY be performed by a Third-Party Services for the Identity Assurance of ECR Persons as long as proper security access controls are put in place between the Legal Entity and the third-party provider and the third-party provider follows the requirements of the vLEI Ecosystem Governance Framework.
76 77 78 79	e. Identity Assurance of an ECR person MUST be performed to at least Identity Assurance Level 2 (IAL2) as defined in NIST 800-63A (https://pages.nist.gov/800-63-3/sp800-63a.html). Even when IAL2 is used for Identity Assurance, a real-time OOBI session is required (essentially including the IAL3 requirement for a Supervised Remote In-person session).
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81 82	f. Upon completion of Identity Assurance, the LAR MUST request the ECR Person to generate its AID.
83 84	g. Then the following steps MUST be performed in this order and completed during this OOBI session.
85 86 87 88	i. The LAR MUST send a Challenge Message to the ECR Person's AID as defined in the Technical Requirements Part 1 for the purposes of cryptographic authentication of the ECR Person's AID. The Challenge Message MUST be unique to the OOBI session.
89 90 91	ii. The ECR Person MUST use its Private Key Store to sign and return the response to the Challenge Message, after which the ECR Person MUST acknowledge that this action has been completed.
92 93	iii. The LAR MUST verify in real time that the response to the Challenge Message was received from the ECR Person.
94 95 96 97 98	 iv. When the response to the Challenge Message has been received by the LAR, the LAR MUST verify the ECR Person's signature. h. The LAR MUST issue a Legal Entity ECR AUTH vLEI Credential to the QVI as required in the Legal Entity QVI AUTH vLEI Credential Framework.
99	2. Preparing for issuance of an ECR vLEI Credential by a QVI
100 101	a. Identity Authentication by a QAR
102 103 104	 i. A QAR and the ECR Person MUST establish a real-time OOBI session in which the QAR and the ECR Person are present. An example is a continuous web meeting attended by all parties on both audio and video.
105 106 107 108 109 110	ii. A QAR MUST perform manual verification of the ECR Person's legal identity for which the LAR, or third-party service provider, already has performed Identity Assurance. An example: the ECR Person visually presents one or more identity credentials verified during Identity Assurance to the QAR.
111 112 113 114 115	iii. A QAR MUST ask the ECR Person verbally to confirm the AID that was sent in the Legal Entity ECR AUTH vLEI Credential. If the AID provided by the ECR Person does not match the AID sent in the Legal Entity ECR AUTH vLEI Credential, the OOBI session ends.
116 117 118 119	iv. If the AID provided by the ECR Person matches the AID sent in the Legal Entity ECR AUTH vLEI Credential, the OOBI session continues with Identity Authentication by the QAR.



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121 122		ring steps MUST be performed in this order and completed during this on.
123 124 125 126	de cr	re QAR MUST send a Challenge Message to the ECR Person's AID as efined in the Technical Requirements Part 1 for the purposes of yptographic authentication of the ECR Person's AID. The Challenge essage MUST be unique to the OOBI session.
127 128 129	re	e ECR Person MUST use its Private Key Store to sign and return a sponse to the Challenge Message, after which the ECR Person MUST knowledge that this action has been completed.
130 131		e QAR MUST verify in real time that the response to the Challenge essage was received from the ECR Person.
132 133		hen the response to the Challenge Message has been received by the AR, the QAR MUST verify the ECR Person's signature.
134		
135	6.5.2 For issuance by	a QVI for a Legal Entity with a sole employee
136 137		outhorization of an ECR vLEI Credential by a sole employee (who is at the R, LAR and ECR Person)
138	a. A cred	ential wallet MUST be set up for the ECR Person.
139 140 141	MUST	the ECR Person also is the only LAR, the single employee as the LAR issue a Legal Entity ECR AUTH vLEI Credential to the QVI.
141		ssuance of an ECR vLEI Credential by a QVI
143 144 145	a. QAR and t QAR and t	he ECR Person MUST establish a real-time OOBI session in which the he ECR Person are present. An example is a continuous web meeting by all parties on both audio and video.
146 147 148 149	Legal Entit not match	IST ask the ECR Person verbally to confirm the AID that was sent in the ty ECR AUTH vLEI Credential. If the AID provided by the ECR Person does the AID sent in the Legal Entity ECR AUTH vLEI Credential, the OOBI ds.
150		
151 152	•	provided by the ECR Person matches the AID sent in the Legal Entity ECR Credential, the OOBI session continues.
153	d. Identity As	ssurance

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154	V.	Identity Assurance of the ECR Person who is the sole employee MUST be
155		performed prior to the issuance of an ECR vLEI Credential.
156	vi.	Identity Assurance of an ECR Person that is a sole employee MUST be
157		performed either by a QAR or through the use of Third-Party Services by
158		the QVI since an ECR Person that is a sole employee is unable to identity
159		assurance itself.
160	vii.	Identity Assurance MAY be performed by a Third-Party Services for the
161		Identity Assurance of ECR Persons as long as proper security access
162		controls are put in place between the QVI and the third-party provider and $% \left(1\right) =\left(1\right) \left(1\right)$
163		the third-party provider follows the requirements of the vLEI Ecosystem
164		Governance Framework.
165	viii.	Identity Assurance of an ECR person MUST be performed to at least
166		Identity Assurance Level 2 (IAL2) as defined in NIST 800-63A
167		$\label{eq:linear_condition} \begin{tabular}{ll} $(\underline{\text{https://pages.nist.gov/800-63-3/sp800-63a.html}})$. Even when IAL2 is used \\ \end{tabular}$
168		for Identity Assurance, a real-time OOBI session is required (essentially
169		including the IAL3 requirement for a Supervised Remote In-person
170		session).
171		
172	e. Identity	Authentication
173	ix.	The following steps MUST be performed in this order and completed
174		during this OOBI session.
175	Х.	The QAR MUST send a Challenge Message to the ECR Person's AID as
176		defined in the Technical Requirements Part 1 for the purposes of
177		cryptographic authentication of the ECR Person's AID. The Challenge
178		Message MUST be unique to the OOBI session.
179	xi.	The OOR Person MUST use its Private Key Store to sign and return the
180		response to the Challenge Message, after which the ECR Person MUST
181		acknowledge that this action has been completed.
182	xii.	The QAR MUST verify in real time that the response to the Challenge
183		Message was received from the ECR Person.
184	xiii.	When the response to the Challenge Message has been received by the
185	AIII.	QAR, the QAR MUST verify the ECR Person's signature.
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6.5.3 For issuance by a Legal Entity with more than one authorized signer or employee

The following applies except when the ECR Person is a sole employee, most likely a sole proprietor, who simply would issue an ECR vLEI Credential to their own wallet.

1. Identity Assurance

a. A LAR, or a Third-Party Services engaged by the Legal Entity ,MUST perform Identity Assurance of a person serving in an Engagement Context Role (ECR Person) to at least Identity Assurance Level 2 (IAL2) as defined in NIST 800-63A (https://pages.nist.gov/800-63-3/sp800-63a.html). Even when IAL2 is used for Identity Assurance, a real-time OOBI session is required as specified 2.b below (essentially including the IAL3 requirement for a Supervised Remote In-person session).

2. Identity Authentication

- a. A credential wallet MUST be set up for the ECR Person.
- b. A LAR and the ECR Person MUST meet in person or establish a real-time OOBI session in which the LAR and the ECR Person are present. An example is a continuous web meeting attended by all parties on both audio and video.
- c. The following steps MUST be performed in this order and completed during this OOBI session.
 - i. The LAR MUST perform manual verification of the ECR Person's legal identity for which the LAR has already performed Identity Assurance. An example: the ECR Person visually presents one or more legal identity credentials and the LAR compares to the credentials verified during Identity Assurance.
 - ii. The LAR MUST use an OOBI protocol (such as a QR code or live chat) to share the Legal Entity AID with the ECR Person.
 - iii. The ECR Person MUST use an OOBI protocol (such as a QR code or live chat) to share its AID with the LAR.
 - iv. The LAR MUST send a Challenge Message to the ECR Person's AID as defined in the Technical Requirements Part 1 for the purposes of cryptographic authentication of the ECR Person's AID. The Challenge Message MUST be unique to the OOBI session.
 - v. The ECR Person MUST use its Private Key Store to sign and return a response to the Challenge Message, after which the ECR Person MUST acknowledge that this action has been completed.

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225 226				he LAR MUST verify in real time that the response to the Challenge Nessage was received from the ECR Person.
227 228				When the response to the Challenge Message has been received by the AR, the LAR MUST verify the ECR Person's signature.
229	6.6	ls	suance	
230			6.6.1 For issu	ance by a QVI:
231 232		1.	,	nd ECR Person Identity Verification process outlined in sections 6.3 and pleted before ECR vLEI Credential issuance can begin.
233 234 235 236 237		2.	to be involved in perform the requ	be implemented in the operations of the QVI which requires two QARs the issuance and signing an ECR vLEI Credential. The first QAR will ired above-mentioned Identity Authentication and out-of-band ten signs the credential. Another QAR then approves the issuance and I Credential.
238			6.6.2 For issu	ance by a Legal Entity:
239 240		1.		dentity Verification process outlined in section 6.5 MUST be completed redential issuance can begin.
241 242		2.		be put in place by the Legal Entity for ECR vLEI Role Credentials to meet for two LARs to sign the ECR vLEI Role Credentials at issuance.
243	6.7	Re	evocation	
244			6.7.1 For rev	vocation by a QVI:
245		1.	The Legal Entity N	MUST notify the QVI to revoke an ECR vLEI Credential.
246 247		2.	•	ously issued ECR vLEI Credential, the LAR(s) MUST revoke the QVI AUTH al related to a specific issuance of an ECR vLEI Credential.
248		3.	The QAR then MU	JST revoke the ECR vLEI Credential.
249 250 251		4.	•	erform the revocation within the timeframe specified in the agreement d the issuance of ECR vLEI Credentials to one or more QVIs, offered by dded service.
252 253 254		5.		Grace Period for the Qualified vLEI Issuer vLEI Credential that has been , the QVI MUST revoke all of the ECR vLEI Credentials that the QVI has
255 256		6.	Then the termina	ted QVI MUST transfer a copy of its revocation log to GLEIF.



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258	6.7.2 For revocation by a Legal Entity:			
259 260 261	The Legal Entity SHOULD put in place its own processes specifying how LARs are to be notified when ECR vLEI Credentials should be revoked and the timeframe in which the ECR vLEI Credential are to be revoked.			
262	6.8 Level of Assurance			
263 264	The ECR vLEI Credential SHOULD be issued with only a single Level of Assurance. Future versions of this credential governance framework MAY define multiple Levels of Assurance.			
265	7 Holder Policies			
266	7.1 Restrictions			
267 268	There are no restrictions on the Holders of vLEI Credentials specified in the vLEI Ecosystem. Restrictions may be introduced in other Ecosystems that use the vLEI Ecosystem.			
269	7.2 Privacy Considerations			
270 271 272 273 274	It is the sole responsibility of Holders as Issuees of an ECR vLEI Credential to present that Credential in a privacy-preserving manner using the mechanisms provided in the Issuance and Presentation Exchange (IPEX) protocol specification and the Authentic Chained Data Container (ACDC) specification. https://github.com/WebOfTrust/IETF-IPEX and https://github.com/trustoverip/tswg-acdc-specification			
275	8 Verifier Policies			
276 277	There are no restrictions on the Verifiers of vLEI Credentials specified in the vLEI Ecosystem. Restrictions may be introduced in other Ecosystems that use the vLEI Ecosystem.			
278	9 Credential Definition			
279	9.1 Schema			
280 281	 The ECR vLEI Credential MUST be an Authentic Chained Data Container (ACDC) that MUST use for its schema at the time of issuance, the JSON Schema found in: 			
282 283	https://github.com/WebOfTrust/vLEI/blob/dev/schema/acdc/legal-entity-engagement-context-role-vLEI-credential.json			
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285	2.	The field values in the credential must be as follows:
286		a. The "LEI" field value MUST be the LEI of Legal Entity Holder.
287 288 289		b. The "personLegalName" field value MUST be the Legal Name of the Person in the Engagement Context Role at the Legal Entity as it appears in the identity credential provided by the OOR Person for Identity Assurance.
290 291		c. The "engagementContextRole" field value MUST be the the Engagement Context Role.
292 293 294 295		Additional data elements can be specified about the ECR Person through issuance of another ACDC credential containing these additional elements by using the chaining capabilities of ACDC credentials to chain this additional ACDC credential to the Legal Entity Engagement Context vLEI Credential.
296 297 298 299 300 301	3.	For an Issuer that is a QVI, the Sources section of the ECR vLEI Credential MUST contain a source reference to the QVI AUTH vLEI Credential (via SAID) that the issuing QVI received authorizing the issuance of this ECR vLEI Credential. The Sources section of that QVI AUTH vLEI Credential MUST contain a source reference to the Legal Entity vLEI Credential that was issued by the QVI to the Legal Entity and contain the same value for the "LEI" field as the Legal Entity vLEI Credential.
302 303 304 305	4.	For an Issuer that is a Legal Entity, the Sources section of the ECR vLEI Credential MUST contain a source reference to the Legal Entity vLEI Credential (via SAID) held by the Legal Entity that is issuing this ECR vLEI Credential. The value of the "LEI" field of the Legal Entity vLEI Credential MUST match the value of the "LEI" field in this ECR vLEI Credential.
306 307 308		The elements in this type of credential can be returned in response to a presentation request in a manner that provides for graduated disclosure and contractually protected disclosure as defined in the IPEX protocol (see below).
309 310		The ACDC specification is covered in the ACDC protocol specification which can be found in: https://github.com/WebOfTrust/ietf-keri
311 312 313		The issuance and presentation exchange protocols are covered in the Issuance and Presentation Exchange (IPEX) protocol specification, which can be found in: https://github.com/WebOfTrust/IETF-IPEX



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