



Enabling global identity  
Protecting digital trust

# Webhook

GLEIF Testnet Documentation

Public  
Version 1.0  
2025-07-11

# Table of Contents

|          |                                      |          |
|----------|--------------------------------------|----------|
| <b>1</b> | <b>Webhook Overview.....</b>         | <b>3</b> |
| 1.1      | Getting Started.....                 | 3        |
| 1.1.1    | Training Example .....               | 4        |
| 1.1.2    | End to End Workflow Example .....    | 4        |
| 1.2      | Functional Purpose.....              | 4        |
| 1.3      | vLEI Reporting Webhook URL List..... | 4        |
| 1.4      | Who Runs This .....                  | 4        |
| <b>2</b> | <b>OpenAPI Documentation .....</b>   | <b>5</b> |



|                       |                       |
|-----------------------|-----------------------|
| Version               | 1.0                   |
| Date of version       | 2025-07-11            |
| Created by            | Kent Bull             |
| Approved by           | Ivan Mortimer-Schutts |
| Confidentiality level | External Use          |

## About this Document

This document describes the usage of the GLEIF Testnet vLEI Reporting Webhook for technical users and is aimed at software developers and architects using the vLEI technologies to build line of business applications.

## Change History

| Date       | Version | Description of Change | Author    |
|------------|---------|-----------------------|-----------|
| 2025-07-11 | 1.0     | FinalVersion          | Kent Bull |

## 1 Webhook Overview

### 1.1 Getting Started

The webhook shown in the examples below is just a simple API that receives JSON data extracted from an ACDC<sup>1</sup> credential and could easily be replaced by your own custom server written in whatever language you like. The example used below is written in Python, though your own webhook does not need to be written in Python to work with the vLEI Reporting API (sally). Both the training and end-to-end referenced examples below illustrate usage of the webhook along with the vLEI Reporting API and may be used as a getting started guide. Start with the Training example and progress onto the end to end workflow if additional context is needed.

---

<sup>1</sup> ACDC is the [Authentic Chained Data Container](#), the verifiable data, or verifiable credential, format for the vLEI and KERI ecosystems.



### 1.1.1 Training Example

The vLEI Trainings repository has a [vLEI Trust Chain training](#) (Github GLEIF-IT/vlei-trainings/jupyter/notebooks/ 103\_10\_vLEI\_Trust\_Chain.ipynb) showing the basics with getting up and running for the webhook and the vLEI Reporting API agent, associated KERIA infrastructure, and a Signify edge wallet (edge controller).

### 1.1.2 End to End Workflow Example

An advanced setup may be found in the end-to-end testing [qvi-software repository](#) in the [keria\\_docker](#) folder (Github GLEIF-IT/qvi-software/qvi-workflow/keria\_docker) illustrating how a webhook and the vLEI Reporting API (Sally) server may be set up for production usage. A barebones, headless, task based Signify wallet implementation using the vLEI Reporting API and KERIA may be found in the [qvi-software/qvi-workflow/sig\\_ts\\_wallets](#) subdirectory showing the Typescript code for building the various parts an end-to-end issuance, credential holding, and credential presentation workflow.

## 1.2 Functional Purpose

The vLEI Reporting Webhook acts as a simple 3<sup>rd</sup> party component receiving ACDC credential data from the vLEI Reporting API upon successful IPEX Grant<sup>2</sup> presentation. A sample deployment of this component is included in the GLEIF Testnet to serve as testing infrastructure for building proof of concept solutions. The vLEI Reporting Webhook URL is noted below.

### 1.3 vLEI Reporting Webhook URL List

|                        |   |
|------------------------|---|
| vLEI Reporting Webhook | <a href="https://hook.testnet.gleif.org:9923">https://hook.testnet.gleif.org:9923</a> |
|------------------------|---|

### 1.4 Who Runs This

A webhook will be run by any organization who runs a verifier that also wants the verifier to call out to one of their internal services, which will likely be every organization that runs a verifier. This simple webhook is called by the vLEI Reporting API upon successful presentation of a QVI, LE, or OOR credential to the Presentation Handler

---

<sup>2</sup> IPEX is the [Issuance and Presentation Exchange](#) protocol, the verifiable credential issuance and presentation protocol for the vLEI and KERI ecosystems. An IPEX Grant is [the action](#) within that protocol that shares verifiable data.

(Sally). The payload of the call to the webhook is a JSON object with the data from the credential that has been successfully presented.

For the duration of the hackathon GLEIF will provide a testnet with infrastructure on the “testnet.gleif.org” domain as shown below including a vLEI Reporting API verifier and associated webhook.

| Component            | URL and Port  |
|----------------------|---|
| Witness 1 - wit1     | <a href="https://wit1.testnet.gleif.org:5641">https://wit1.testnet.gleif.org:5641</a>                                 |
| Witness 2 - wit2     | <a href="https://wit2.testnet.gleif.org:5642">https://wit2.testnet.gleif.org:5642</a>                                 |
| Witness 3 - wit3     | <a href="https://wit3.testnet.gleif.org:5643">https://wit3.testnet.gleif.org:5643</a>                                 |
| Witness 4 - wit4     | <a href="https://wit4.testnet.gleif.org:5644">https://wit4.testnet.gleif.org:5644</a>                                 |
| Witness 5 - wit5     | <a href="https://wit5.testnet.gleif.org:5645">https://wit5.testnet.gleif.org:5645</a>                                 |
| KERIA Server         | <a href="https://keria.testnet.gleif.org">https://keria.testnet.gleif.org</a><br>Ports 3901, 3902, and 3903 are open  |
| vLEI Server          | <a href="https://schema.testnet.gleif.org:7723">https://schema.testnet.gleif.org:7723</a>                             |
| vLEI Reporting API   | <a href="https://presentation-handler.testnet.gleif.org:9723">https://presentation-handler.testnet.gleif.org:9723</a> |
| Webhook Call Handler | <a href="https://hook.testnet.gleif.org:9923">https://hook.testnet.gleif.org:9923</a>                                 |

## 2 OpenAPI Documentation

The OpenAPI 3.0 documentation for the vLEI Reporting Webhook is not yet available on request from a URL. This will change in the future.

