NCC Group
11 E Adams St, Suite 400
Chicago, IL 60603
https://nccgroup.com

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Envision Blockchain Solutions
9040 Red Oak Lane
Boca Raton, FL 33428

## Introduction

Between the days of July 4th and July 31st, 2024, two (2) consultants from NCC Group engaged in an application test and threat model for a total of forty (40) person-days of effort reviewing the Envision Blockchain Guardian application.

The purpose of this assessment was to identify application-level security issues that could adversely affect the security of the Guardian application. This assessment was performed by NCC Group under the guidelines provided in the statement of work for the engagement.

The assessment was followed by a retest of the identified security issues between the dates of October 10th and October 14th, 2024, to determine whether these had been properly addressed.

## Detailed Letter of Engagement Overview

NCC Group is a global information assurance firm that, in the US, specializes in application, mobile, network, host, and product security. Security conscious companies use NCC Group's Detailed Letters of Engagement to verify product attributes in view of current security best practices, standard security functionality, and product protection. More information about the Group's processes and products can be found at https://nccgroup.com/us.

It is important to note that this document represents a point-in-time evaluation of security posture. Security threats and attacker techniques evolve rapidly, and the results of this assessment are not intended to represent an endorsement of the adequacy of current security measures against future threats. This Detailed Letter of Engagement necessarily contains information in summary form and is therefore intended for general guidance only; it is not intended as a substitute for detailed research or the exercise of professional judgment. The information presented here should not be construed as professional advice or service.

## Testing Methods

Testing was performed using NCC Group's standard methodology for Blockchain and Web3 applications. Envision Blockchain provided NCC Group with access to source code and documentation in order to improve the effectiveness of the testing. The following aspects of Guardian were reviewed as part of this assessment:

- Architecture Review and Threat Model
- Web Application and APIs Assessment
- Static Analysis Security Testing (SAST) of the source code
- Smart Contracts Security Assessment


## Summary of Findings

During the assessment, NCC Group identified:

- One (1) critical severity vulnerability
- Seven (7) high severity vulnerabilities
- Ten (10) medium severity vulnerabilities
- Nine (9) low severity vulnerabilities
- Thirteen (13) informational findings

Upon completion of the assessment, all findings were reported to Envision Blockchain along with recommendations.

Between the dates of October 10th and October 23rd, 2024, NCC Group retested these vulnerabilities in accordance with the above methodology and observed that most of the issues posing a higher risk had been properly addressed, although one (1) high severity issue remained present. After the retest, the following issues remained open:

- Five (5) medium severity vulnerabilities
- Twelve (13) low severity vulnerabilities
- Fourteen (14) informational findings

Note that some findings had their original risk lowered due to partial fixes and mitigations added between the original assessment and this retest.