



CredShields

Smart Contract Audit

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Description

This document details the process and result of the Smart Contract audit performed by CredShields Technologies PTE. LTD. on behalf of VaultCoin Foundation, Panama, between November 21st, 2025, and November 21st, 2025. A retest was performed on November 21st, 2025.

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Prepared for

VaultCoin Foundation, Panama

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1. Executive Summary -----

VaultCoin Foundation, Panama, engaged CredShields to perform a smart contract audit from November 21st, 2025, to November 21st, 2025. During this timeframe, 1 vulnerabilities were identified. **A retest was performed on November 21st, 2025, and all the bugs have been addressed.**

During the audit, 0 vulnerabilities were found with a severity rating of either High or Critical. These vulnerabilities represent the greatest immediate risk to "VaultCoin Foundation, Panama" and should be prioritized for remediation, and fortunately, none were found.

The table below shows the in-scope assets and a breakdown of findings by severity per asset. Section 2.3 contains more information on how severity is calculated.

Assets in Scope	Critical	High	Medium	Low	info	Gas	Σ
VaultCoin Token Contract	0	0	0	1	0	0	1

Table: Vulnerabilities Per Asset in Scope

The CredShields team conducted the security audit to focus on identifying vulnerabilities in the VaultCoin Token Contract's scope during the testing window while abiding by the policies set forth by the VaultCoin Foundation, Panama's team.



State of Security

To maintain a robust security posture, it is essential to continuously review and improve upon current security processes. Utilizing CredShields' continuous audit feature allows both VaultCoin Foundation, Panama's internal security and development teams to not only identify specific vulnerabilities but also gain a deeper understanding of the current security threat landscape.

To ensure that vulnerabilities are not introduced when new features are added, or code is refactored, we recommend conducting regular security assessments. Additionally, by analyzing the root cause of resolved vulnerabilities, the internal teams at VaultCoin Foundation, Panama can implement both manual and automated procedures to eliminate entire classes of vulnerabilities in the future. By taking a proactive approach, VaultCoin Foundation, Panama can future-proof its security posture and protect its assets.

2. The Methodology -----

VaultCoin Foundation, Panama, engaged CredShields to perform a VaultCoin Token Contract audit. The following sections cover how the engagement was put together and executed.

2.1 Preparation Phase

The CredShields team meticulously reviewed all provided documents and comments in the smart contract code to gain a thorough understanding of the contract's features and functionalities. They meticulously examined all functions and created a mind map to systematically identify potential security vulnerabilities, prioritizing those that were more critical and business-sensitive for the refactored code. To confirm their findings, the team deployed a self-hosted version of the smart contract and performed verifications and validations during the audit phase.

A testing window from November 21st, 2025, to November 21st, 2025, was agreed upon during the preparation phase.

2.1.1 Scope

During the preparation phase, the following scope for the engagement was agreed upon:

IN SCOPE ASSETS
VaultCoin.sol

2.1.2 Documentation

Documentation was not required as the code was self-sufficient for understanding the project.



2.1.3 Audit Goals

CredShields employs a combination of in-house tools and thorough manual review processes to deliver comprehensive smart contract security audits. The majority of the audit involves manual inspection of the contract's source code, guided by OWASP's Smart Contract Security Weakness Enumeration (SCWE) framework and an extended, self-developed checklist built from industry best practices. The team focuses on deeply understanding the contract's core logic, designing targeted test cases, and assessing business logic for potential vulnerabilities across OWASP's identified weakness classes.

CredShields aligns its auditing methodology with the [OWASP Smart Contract Security](#) projects, including the Smart Contract Security Verification Standard (SCSVS), the Smart Contract Weakness Enumeration (SCWE), and the Smart Contract Secure Testing Guide (SCSTG). These frameworks, actively contributed to and co-developed by the CredShields team, aim to bring consistency, clarity, and depth to smart contract security assessments. By adhering to these OWASP standards, we ensure that each audit is performed against a transparent, community-driven, and technically robust baseline. This approach enables us to deliver structured, high-quality audits that address both common and complex smart contract vulnerabilities systematically.

2.2 Retesting Phase

VaultCoin Foundation, Panama is actively partnering with CredShields to validate the remediations implemented towards the discovered vulnerabilities.

2.3 Vulnerability classification and severity

CredShields follows OWASP's Risk Rating Methodology to determine the risk associated with discovered vulnerabilities. This approach considers two factors - Likelihood and Impact - which are evaluated with three possible values - **Low**, **Medium**, and **High**, based on factors such as Threat

agents, Vulnerability factors, and Technical and Business Impacts. The overall severity of the risk is calculated by combining the likelihood and impact estimates.

Overall Risk Severity				
Impact	HIGH	● Medium	● High	● Critical
	MEDIUM	● Low	● Medium	● High
	LOW	● None	● Low	● Medium
		LOW	MEDIUM	HIGH
Likelihood				

Overall, the categories can be defined as described below -

1. Informational

We prioritize technical excellence and pay attention to detail in our coding practices. Our guidelines, standards, and best practices help ensure software stability and reliability. Informational vulnerabilities are opportunities for improvement and do not pose a direct risk to the contract. Code maintainers should use their own judgment on whether to address them.

2. Low

Low-risk vulnerabilities are those that either have a small impact or can't be exploited repeatedly or those the client considers insignificant based on their specific business circumstances.

3. Medium

Medium-severity vulnerabilities are those caused by weak or flawed logic in the code and can lead to exfiltration or modification of private user information. These vulnerabilities

can harm the client's reputation under certain conditions and should be fixed within a specified timeframe.

4. High

High-severity vulnerabilities pose a significant risk to the Smart Contract and the organization. They can result in the loss of funds for some users, may or may not require specific conditions, and are more complex to exploit. These vulnerabilities can harm the client's reputation and should be fixed immediately.

5. Critical

Critical issues are directly exploitable bugs or security vulnerabilities that do not require specific conditions. They often result in the loss of funds and Ether from Smart Contracts or users and put sensitive user information at risk of compromise or modification. The client's reputation and financial stability will be severely impacted if these issues are not addressed immediately.

6. Gas

To address the risk and volatility of smart contracts and the use of gas as a method of payment, CredShields has introduced a "Gas" severity category. This category deals with optimizing code and refactoring to conserve gas.

2.4 CredShields staff

The following individual at CredShields managed this engagement and produced this report:

- Shashank, Co-founder CredShields shashank@CredShields.com

Please feel free to contact this individual with any questions or concerns you have about the engagement or this document.

3. Findings Summary -----

This chapter contains the results of the security assessment. Findings are sorted by their severity and grouped by asset and OWASP SCWE classification. Each asset section includes a summary highlighting the key risks and observations. The table in the executive summary presents the total number of identified security vulnerabilities per asset, categorized by risk severity based on the OWASP Smart Contract Security Weakness Enumeration framework.

3.1 Findings Overview

3.1.1 Vulnerability Summary

During the security assessment, 1 security vulnerabilities were identified in the asset.

VULNERABILITY TITLE	SEVERITY	SCWE Vulnerability Type
Floating and Outdated Pragma	Low	Floating Pragma (SCWE-060)

Table: Findings in Smart Contracts

4. Remediation Status -----

VaultCoin Foundation, Panama is actively partnering with CredShields from this engagement to validate the discovered vulnerabilities' remediations. **A retest was performed on November 21st, 2025, and all the issues have been addressed.**

Also, the table shows the remediation status of each finding.

VULNERABILITY TITLE	SEVERITY	REMEDICATION STATUS
Floating and Outdated Pragma	Low	Won't Fix [November 21st, 2025]

Table: Summary of findings and status of remediation

5. Bug Reports -----

Bug ID #L001[Fixed]

Floating and Outdated Pragma

Vulnerability Type

Floating Pragma ([SCWE-060](#))

Severity

Low

Description

Locking the pragma helps ensure that the contracts do not accidentally get deployed using an older version of the Solidity compiler affected by vulnerabilities.

The contract allowed floating or unlocked pragma to be used, i.e., ^0.8.27. This allows the contracts to be compiled with all the solidity compiler versions above the limit specified.

Affected Code

- #L03 - pragma solidity ^0.8.27;

Impacts

If the smart contract gets compiled and deployed with an older or too recent version of the Solidity compiler, there's a chance that it may get compromised due to the bugs present in the older versions or unidentified exploits in the new versions.

Incompatibility issues may also arise if the contract code does not support features in other compiler versions, therefore, breaking the logic.

The likelihood of exploitation is low.

Remediation

Keep the compiler versions consistent in all the smart contract files. Do not allow floating pragmas anywhere. It is suggested to use the 0.8.29 pragma version

Reference: <https://scs.owasp.org/SCWE/SCSVS-CODE/SCWE-060/>

Retest

This won't be fixed as it does not affect the security aspect of the contracts.

6. The Disclosure -----

The Reports provided by CredShields are not an endorsement or condemnation of any specific project or team and do not guarantee the security of any specific project. The contents of this report are not intended to be used to make decisions about buying or selling tokens, products, services, or any other assets and should not be interpreted as such.

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