SOLIDProof
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Blockchain Security | Smart Contract Audits | KYC
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MADE IN GERMANY

Token Hunters

Audit

Security Assessment
24. September, 2022

For

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Version	Date	Description
1.0	24. September 2022	• Layout project • Automated- /Manual-Security Testing • Summary

Network
Solana (Rust)

Website
https://tokenhunters.app/

Telegram
https://t.me/TokenHuntersApp

Twitter
https://twitter.com/TokenHuntersApp

Discord
https://discord.com/invite/TQbwf5kA9e

Description
TBA

Project Engagement
During the 17th of September 2022, **Token Hunters Team** engaged Solidproof.io to audit smart contracts that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

Logo


Contract Link
v1.0
- SPL-Token Token-Id
  - TokenkegQfeZyiNwAJbNbGKPFXCWuBvf9Ss623VQ5DA
- Token address
  - https://solscan.io/token/CTYiHf58UGShfHtpkTwx7vjPDA779dd6iVaeD281fEVx
- Minter address
  - https://solscan.io/token/CTYiHf58UGShfHtpkTwx7vjPDA779dd6iVaeD281fEVx

Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level	Value	Vulnerability	Risk (Required Action)
Critical	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
High	7 – 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon aspossible.
Medium	4 – 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
Low	2 – 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
Informational	0 – 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as there were discovered.

Methodology

The auditing process follows a routine series of steps:

1. Code review that includes the following:
    i) Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
    ii) Manual review of code, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
    iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.

2. Testing and automated analysis that includes the following:
    i) Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
    ii) Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.

3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.

4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.

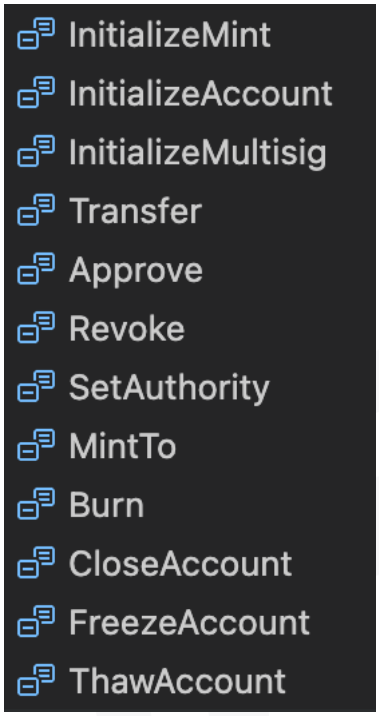
Scope of Work/Verify Claims

The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .rs).

We will verify the following claims:

1. Overall checkup (Smart Contract Security)

SPL Functions of contract v1.0



Overall checkup (Smart Contract Security)

Tested	Verified
✓	✓

Legend

Attribute	Symbol
Verified / Checked	✓
Partly Verified	⚑
Unverified / Not checked	✗
Not available	-

Audit Results

Critical issues

No critical issues

High issues

No high issues

Medium issues

No medium issues

Low issues

No low issues

Informational issues

No informational issues

Audit Comments

24. September 2022:

Contract was compiled on Ubuntu 18.04 x64 with actual Rust, Solana, NPM and Yarn packages.

Automated testing results:

- ✓ Compiler Optimization Passes
- ✓ Pointer Analysis
- ✓ Building Static Happens-Before Graph
- ✓ Detecting Vulnerabilities

No Vulnerabilities were found in the crate dependencies.
Not lint mistakes were found. The contract which is used it the SPL-Token (https://spl.solana.com/token).