



verichains

SECURITY AUDIT OF
STE TOKEN SMART CONTRACT



Public Report

Jun 01, 2022

Verichains Lab

info@verichains.io

<https://www.verichains.io>

Driving Technology > Forward

ABBREVIATIONS

Name	Description
Ethereum	An open source platform based on blockchain technology to create and distribute smart contracts and decentralized applications.
Ether (ETH)	A cryptocurrency whose blockchain is generated by the Ethereum platform. Ether is used for payment of transactions and computing services in the Ethereum network.
Smart contract	A computer protocol intended to digitally facilitate, verify or enforce the negotiation or performance of a contract.
Solidity	A contract-oriented, high-level language for implementing smart contracts for the Ethereum platform.
Solc	A compiler for Solidity.
ERC20	ERC20 (BEP20 in Binance Smart Chain or xRP20 in other chains) tokens are blockchain-based assets that have value and can be sent and received. The primary difference with the primary coin is that instead of running on their own blockchain, ERC20 tokens are issued on a network that supports smart contracts such as Ethereum or Binance Smart Chain.

Report for STE

Security Audit – STE Token Smart Contract

Version: 1.1 – Public Report

Date: Jun 01, 2022



EXECUTIVE SUMMARY

This Security Audit Report prepared by Verichains Lab on Jun 01, 2022. We would like to thank the STE for trusting Verichains Lab in auditing smart contracts. Delivering high-quality audits is always our top priority.

This audit focused on identifying security flaws in code and the design of the STE Token Smart Contract. The scope of the audit is limited to the source code files provided to Verichains. Verichains Lab completed the assessment using manual, static, and dynamic analysis techniques.

During the audit process, the audit team had identified no vulnerable issue in the smart contract code.

TABLE OF CONTENTS

1. MANAGEMENT SUMMARY	5
1.1. About STE Token Smart Contract	5
1.2. Audit scope	5
1.3. Audit methodology.....	5
1.4. Disclaimer	6
2. AUDIT RESULT	7
2.1. Overview	7
2.2. Findings	8
3. VERSION HISTORY	10

1. MANAGEMENT SUMMARY

1.1. About STE Token Smart Contract

Stretch To Earn is a fitness app, both to improve health and to be able to earn up to 100,000 dollars on your body movements. STE was born to inspire millions of people to live a healthy lifestyle and motivate human beings by encouraging users to exercise daily and awarding them worthy rewards.

1.2. Audit scope

This audit focused on identifying security flaws in code and the design of the STE Token Smart Contract. It was conducted on the source code provided by the STE team.

The audited contracts are the STE Token Smart Contract that deployed on Binance Smart Chain. The details of the deployed smart contract are listed in Table 1.

FIELD	VALUE
Contract Name	CoinToken
Contract Address	0xA4CcaE9F2bD6195053D675e9a09B1d894695Ca0F
Compiler Version	v0.8.5+commit.a4f2e591
Optimization Enabled	Yes with 200 runs
Explorer	https://bscscan.com/token/0xA4CcaE9F2bD6195053D675e9a09B1d894695Ca0F

Table 1. The deployed smart contract details

1.3. Audit methodology

Our security audit process for smart contract includes two steps:

- Smart contract codes are scanned/tested for commonly known and more specific vulnerabilities using public and RK87, our in-house smart contract security analysis tool.
- Manual audit of the codes for security issues. The contracts are manually analyzed to look for any potential problems.

Following is the list of commonly known vulnerabilities that was considered during the audit of the smart contract:

- Integer Overflow and Underflow
- Timestamp Dependence
- Race Conditions
- Transaction-Ordering Dependence
- DoS with (Unexpected) revert
- DoS with Block Gas Limit
- Gas Usage, Gas Limit and Loops
- Redundant fallback function
- Unsafe type Inference
- Reentrancy
- Explicit visibility of functions state variables (external, internal, private and public)
- Logic Flaws

For vulnerabilities, we categorize the findings into categories as listed in table below, depending on their severity level:

SEVERITY LEVEL	DESCRIPTION
CRITICAL	A vulnerability that can disrupt the contract functioning; creates a critical risk to the contract; required to be fixed immediately.
HIGH	A vulnerability that could affect the desired outcome of executing the contract with high impact; needs to be fixed with high priority.
MEDIUM	A vulnerability that could affect the desired outcome of executing the contract with medium impact in a specific scenario; needs to be fixed.
LOW	An issue that does not have a significant impact, can be considered as less important.

Table 2. Severity levels

1.4. Disclaimer

Please note that security auditing cannot uncover all existing vulnerabilities, and even an audit in which no vulnerabilities are found is not a guarantee for a 100% secure smart contract. However, auditing allows discovering vulnerabilities that were unobserved, overlooked during development and areas where additional security measures are necessary.

Report for STE

Security Audit – STE Token Smart Contract

Version: 1.1 – Public Report

Date: Jun 01, 2022



PROPERTY	VALUE
Total Supply	10,000,000 ($\times 10^{18}$) Note: the number of decimals is 18, so the total representation token will be 10,000,000 or 10 million.

Table 3. The deployed STE Token Smart Contract properties

2.2. Findings

During the audit process, the audit team found no vulnerability issue in the given version of STE Token Smart Contract.

Report for STE

Security Audit – STE Token Smart Contract

Version: 1.1 – Public Report

Date: Jun 01, 2022



3. VERSION HISTORY

Version	Date	Status/Change	Created by
1.0	<i>Mar 31, 2022</i>	Public Report	Verichains Lab
1.1	<i>Jun 01, 2022</i>	Public Report	Verichains Lab

Table 4. Report versions history