



Smart Contract Security Audit

Project: SU7

Apr 17, 2024



Contract Address

0x56921DB5213A3800e9600b9782BD79A3a3a97884

Table of Contents

- 1 Disclaimer**
- 2 Audit Review**
- 3 Project Review**
- 4 Smart Contract Vulnerability Checks**
- 5 Manual Code Review**
- 6 Owner Privileges**
 - 6.1 Contract Ownership
 - 6.2 Liquidity Overview
- 7 Tokenomics**
- 8 Social Media Check**
- 9 Website Review**
- 10 Audit Conclusion**

Disclaimer

The contents of this report reflect only the CRACKEN TECH audit team's understanding of the current progress and status of the security of the code audited, to verify the integrity of the code provided for the scope of this audit. You agree that your access and/or use, including but not limited to any associated services, products, protocols, platforms, content, and materials, will be at your sole risk. Given the size of the project, the findings detailed here are not to be considered exhaustive, and further testing and audit are recommended after the issues covered are fixed. We do not warrant, endorse, guarantee, or assume responsibility for any product or service advertised or offered by a third party through the product, any open source or third-party software, code, libraries, materials, or information linked to, called by, referenced by or accessible through the report, its content, and the related services and products, any hyperlinked websites, any websites or mobile applications appearing on any advertising, and we will not be a party to or in any way be responsible for monitoring any transaction between you and any third-party providers of products or services.

All information provided in this report does not constitute financial or investment advice, nor should it be used to signal that any persons reading this report should invest their funds without sufficient individual due diligence regardless of the findings presented in this report.

The review does not address the compiler layer, any other areas beyond the programming language, or other programming aspects that could present security risks. If the audited source files are smart contract files, risks or issues introduced by using data feeds from off-chain sources are not extended by this review either.

Audit Review

The source code of the SU7 Coin was audited in order to acquire a clear impression of how the project was implemented. The Cracken Tech audit team conducted in-depth research, analysis, and scrutiny, resulting in a series of observations. A detailed list of each issue found, and vulnerabilities in the source code will be included in the audit report. The problems and potential solutions are given in this report, we will identify common sources for such problems and comments for improvement.

The auditing process will follow a routine as special considerations by Cracken:

- Review of the specifications, sources, and instructions provided to Cracken to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Cracken describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
- Symbolic execution is analyzing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.

Project Review

Token Summary

Parameter	Result
Token Name	SU7
Token Symbol	SU7
Token Decimal	18
Total Supply	299,900
Platform	BSC
Buy Tax Fee	3%
Sell Tax Fee	3%
Contract Creation Date	Apr 17, 2024
Liquidity Status	Locked
Liquidity Lockup Time	3 months
Compiler Version	v0.8.22+commit.4fc1097e
Optimization	Yes with 200 runs
Contract Address	0x56921DB5213A3800e9600b9782BD79A3a3a97884
Deployer Address	0x23b38D8B4422CeccB2371B902d505502D8F93A77
Owner Address	0x23b38D8B4422CeccB2371B902d505502D8F93A77

Source Code

CRACKEN was commissioned by SU7 Coin to perform an audit based on the following smart contract:

<https://bscscan.com/token/0x56921db5213a3800e9600b9782bd79a3a3a97884#code>

Smart Contract Vulnerability Checks

Vulnerability	Auto-Scan	Manual-Scan	Result
Unencrypted Private Data On-Chain	Complete	Complete	Low / No Risk
Code With No Effects	Complete	Complete	Low / No Risk
Message call with hardcoded gas amount	Complete	Complete	Low / No Risk
Hash Collisions with Multiple Variable Length Arguments	Complete	Complete	Low / No Risk
Unexpected Ether balance	Complete	Complete	Low / No Risk
Presence of unused variables	Complete	Complete	Low / No Risk
Right-To-Left-Override control character (U+202E)	Complete	Complete	Low / No Risk
Typographical Error	Complete	Complete	Low / No Risk
DoS With Block Gas Limit	Complete	Complete	Low / No Risk
Arbitrary Jump with Function Type Variable	Complete	Complete	Low / No Risk
Insufficient Gas Grieving	Complete	Complete	Low / No Risk
Incorrect Inheritance Order	Complete	Complete	Low / No Risk
Write to Arbitrary Storage Location	Complete	Complete	Low / No Risk
Requirement Violation	Complete	Complete	Low / No Risk
Missing Protection against Signature Replay Attacks	Complete	Complete	Low / No Risk
Weak Sources of Randomness from Chain Attributes	Complete	Complete	Low / No Risk
Authorization through tx. origin	Complete	Complete	Low / No Risk
Delegate call to Untrusted Callee	Complete	Complete	Low / No Risk

Vulnerability	Auto-Scan	Manual-Scan	Result
Use of Deprecated Solidity Functions	Complete	Complete	Low / No Risk
Assert Violation	Complete	Complete	Low / No Risk
Reentrancy	Complete	Complete	Low / No Risk
Unprotected SELF-DESTRUCT Instruction	Complete	Complete	Low / No Risk
Unprotected Ether Withdrawal	Complete	Complete	Low / No Risk
Outdated Compiler Version	Complete	Complete	Low / No Risk
Integer Overflow and Underflow	Complete	Complete	Low / No Risk
Function Default Visibility	Complete	Complete	Low / No Risk

Manual Code Review

Classification of Issues

Severity	Description
● High-Risk	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.
● Medium-Risk	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.
● Low-Risk	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.
● Informational	A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
● High-Risk	0
● Medium-Risk	0
● Low-Risk	0
● Informational	0
Total	0

Privileged Functions

onlyOwner

Function Name	Parameters	Visibility
approve	address spender, uint256 amount	External
Allowance	address owner, address spender	External
balanceOf	address account	Public
setBuyFees	uint256 _buyDividendFee, uint256 _buyMarketFee	Public
buyMarketFee	uint256 _buyDividendFee, uint256 _buyMarketFee	Public
setSellFees	uint256 _sellDividendFee, uint256 _sellMarketFee	External
excludeFromDividends	address account	External
updateClaimWait	uint256 newClaimWait	External
canAutoClaim	uint256 lastClaimTime	Private
setBalance	address payable account, uint256 newBalance	External
setAutoLPBurnSettings	uint256 _frequencyInSeconds, uint256 _percent, bool _Enabled	External
setLpBurnStatus	bool _lpBurnStatus	External
increaseAllowance	address spender, uint256 addedValue	Public
decreaseAllowance	address spender, uint256 subtractedValue	Public
Transfer	address recipient, uint256 amount	External
TransferFrom	address sender, address recipient, uint256 amount	External

Contract Ownership

The contract ownership of SU7 Coin is not currently being renounced. The ownership of the contract grants special powers to the protocol creators, making them the sole addresses that can call sensible ownable functions that may alter the state of the protocol.

The current owner is the address 0x23b38D8B4422CeccB2371B902d505502D8F93A77 which can be viewed: [HERE](#)

The owner wallet has the power to call the functions displayed on the privileged functions list above, if the owner wallet is compromised these privileges could be exploited.

We recommend the team renounce ownership at the right timing if possible, or gradually migrate to a time lock with governing functionalities in respect of transparency and safety considerations.

Liquidity Overview

Liquidity Information

Parameter	Result
Pair Address	0x5a2ad1754c5a7b7272e2fc434321ddfa1eebbe51
SU7 Reserves	\$135,000 SU7
BNB Reserves	\$100 BNB
Liquidity Value	\$110.55K USD
Liquidity Ownership	0x23b38D8B4422CeccB2371B902d505502D8F93A77

Tokenomics

Rank	Address	Quantity (Token)	Percentage
1	PancakeSwap V2: SU7 10	135,000	45.0150%
2	0x00000000000000000000000000000000dEaD	80,056	26.6942%
3	0x23b38D8B4422CeccB2371B902d505502D8F93A77	39,755	13.2561%

Social Media Check

Social Media Type	Link	Result
Telegram	https://t.me/SU7_BSC	Checked
Twitter	https://x.com/MiSu7Bsc	Checked

Audit Conclusion

- The owner cannot pause trading
- The owner cannot mint new tokens
- The owner cannot set the max transaction amount
- The owner cannot change the buy/sell fee upto 3%
- The owner cannot set wallet max limit
- The owner can blacklist wallets

(All functions cannot be used if the ownership is renounced)

AUDIT IS PASSED