

KISHIELD

Security Audit

SimpsonsINU Token

June 4, 2023



Audit Passed



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Audit Summary

This report has been prepared for SimpsonsINU Token on the BSC network. KISHIELD provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Ensuring contract logic meets the specifications and intentions of the client without exposing the user's funds to risk.
- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Project Overview

Token Summary

Parameter	Result
Address	0x3a5efAEF111Ea4014812181C2dd07ce4887593dE
Name	SimpsonsINU
Token Tracker	SimpsonsINU (SIMPSON)
Decimals	9
Supply	420,000,000,000,000
Platform	BSC
compiler	v0.8.16+commit.07a7930e
Optimization	Yes with 200 runs
LicenseType	Unlicense
Language	Solidity
Codebase	https://bscscan.com/address/0x3a5efAEF111Ea4014812181C2dd07ce4887593dE#code
Url	https://simpsonsINU.net

Main Contract Assessed

Name	Contract	Live
SimpsonsINU	0x3a5efAEF111Ea4014812181C2dd07ce4887593dE	Yes

Smart Contract Vulnerability Checks

Vulnerability	Automatic 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
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 Griefing	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

Vulnerability	Automatic Scan	Manual Scan	Result
Authorization through tx.origin	Complete	Complete	✓ Low / No Risk
Delegatecall to Untrusted Callee	Complete	Complete	✓ Low / No Risk
Use of Deprecated Solidity Functions	Complete	Complete	✓ Low / No Risk
Assert Violation	Complete	Complete	✓ Low / No Risk
Reentrancy	Complete	Complete	✓ Low / No Risk
Unprotected SELFDESTRUCT Instruction	Complete	Complete	✓ Low / No Risk
Unprotected Ether Withdrawal	Complete	Complete	✓ Low / No Risk
Unchecked Call Return Value	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

Contract Ownership

The contract ownership of SimpsonsINU is not currently 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 0xE4F683bf74a2211be97f9E9ebaC623eA95cC1a4b which can be viewed from:
[HERE](#)

The owner wallet has the power to call the functions displayed on the privileged functions chart below, if the owner wallet is compromised this privileges could be exploited.

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

Important Notes To The Users:

- There is no fee while transferring between wallets.
- Owner cannot mint tokens after initial deployment.
- Owner cannot stop trading.
- Owner cannot change the buy/sell taxes.
- Owner cannot blacklist addresses.
- Once the owner renounces ownership of the contract, none of the following are applicable.
- Owner can exclude/include addresses from fees.
- Owner can withdraw unrelated tokens from the contract.
- Owner can trigger the Token to BNB fees mechanism manually.
- Owner can transfer the ownership of the contract.
- No High-risk Exploits/Vulnerabilities Were Found in token Source Code.

Read carefully the notes section and make your own decision before interacting with the audited contract.

Audit Passed



Technical Findings Summary

Classification of Issues

*All Issues Found are Informational

Severity	Description
● High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency
● Medium	Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.
● Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
● Info	Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.

Findings

Severity	Found
● High	0
● Medium	0
● Low	0
● Info	2
Total	2

Findings

Too many digits

ID	Severity	Contract	Details
01	● Informational	SimpsonsINU	Variables _tTotal, _swapTokensAtAmount

Description

Literals with many digits are difficult to read and review.

Recommendation

Make use of scientific notation, use underscores, and/or use ether suffix.

Unused Variable

ID	Severity	Contract	Details
02	● Informational	SimpsonsINU	Variables _previousOwner, _tOwned, _buyMap

Description

Variables are never used in the contract logic in a meaningful way.

Recommendation

We recommend deleting this variable.

Privileged Functions (onlyOwner & Others)

Function Name	Parameters	Visibility
transferOwnership	address newOwner	public
swapTokensForEth	none	private
sendETHToFee	none	private
Manualswapandsend	none	external
withdrawToken	address _tokenContract, uint256 _amount	external
setSwapTokensAtAmount	uint256 _amount	external
excludeMultipleAccountsFromFees	calldata accounts, bool excluded	public

Statistics

Liquidity Info

Parameter	Result
Pair Address	0x8b29A93605ECC453ED1D0bab744025347765d98B
SIMPSON Reserves	0.00 SIMPSON
BNB Reserves	0.00 BNB
Liquidity Value	\$0 USD

Token (SIMPSON) Holders Info

Parameter	Result
SIMPSON Percentage Burnt	0.00%
SIMPSON Amount Burnt	0 SIMPSON
Top 10 Percentage Own	100.00%
Top 10 Amount Owned	420,000,000,000,000 SIMPSON
Top 10 Aprox Value	\$NaN USD

LP (SIMPSON/BNB) Holders Info

Parameter	Result
SIMPSON/BNB % Burnt	0.00%
SIMPSON/BNB Amount Burnt	0 SIMPSON/BNB
Top 10 Percentage Owned	0.00%
Top 10 Amount Owned	0 SIMPSON/BNB
Locked Tokens Percentage	0.00%
Locked Tokens Amount	0 SIMPSON/BNB

* All the data displayed above was taken on-chain at block 28812222

* The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations

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Disclaimer

KISHIELD has conducted an independent audit to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the codes that were provided for the scope of this audit. This audit report does not constitute agreement, acceptance or advocacy for the Project that was audited, and users relying on this audit report should not consider this as having any merit for financial advice in any shape, form or nature. The contracts audited do not account for any economic developments that may be pursued by the Project in question, and that the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are completely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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