KISHIELD

Security Audit

ShokenFinance Token

April 7, 2022

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Audit Summary

This report has been prepared for ShokenFinance Token on the Binance Chain 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	0x2be4a7004dfe79d812ed944d2d283a2fe55cf463
Name	ShokenFinance
Token Tracker	ShokenFinance (SHO)
Decimals	5
Supply	10,000,000
Platform	Binance Chain
compiler	v0.7.5+commit.eb77ed08
Optimization	Yes with 200 runs
LicenseType	None
Language	Solidity
Codebase	https://bscscan.com/address/0x2be4a7004dfe79d812ed944d2d283a2fe55cf463
Url	https://plutgame.com/

Main Contract Assessed

Name	Contract	Live
ShokenFinance	0x2be4a7004dfe79d812ed944d2d283a2fe55cf463	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 / 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 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 ShokenFinance 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 0xC9e67c461A8e7b967E1b7Bd027bCaE86BEaF6f9B which can be viewed from:
HERE

The owner wallet has the power to call the functions displayed on the priviliged 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:

- The owner cannot mint tokens after intial deployment.
- The transfer function is implemented correctly.
- The owner cannot stop Trading.
- The owner cannot change the max tx amount.
- The owner cannot change the fees amount.
- Auto Liquidity is added 2 days after the last liquidity addition.
- Once the owner renounces ownership of the contract, none of the
- following are applicable.
- Owner can withdraw all tokens from the contract to the treasuryReceiver
- address.
- Owner can enable/disable autoRebase and AutoAddLiquidity
- Owner can add and remove contracts from the blacklist.
- Owner can set wallets for fee exempt in setWhitelist function.

Audit Passed

Findings Summary

Classification of Issues

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	1
Info	3
Total	4

Findings

Division before Multiplication

ID	Severity	Contract	Function
01	Low	ShokenFinance	function takeFee()

Description

Precision Loss. Division before multiplication can result in truncation and less accurate results

Recommendation

Multiplication should be performed before division to not lose precision.

Unused Variable

ID	Severity	Contract	Function
02	Informational	ShokenFinance	address public pairAddress

Description

pairAddress is never used in the contract logic, still the contract owner can change the address in the function setPairAddress()

Recommendation

We recommend deleting this variable as pairContract already showcases the pairAddress address.

Variables could be declared as constant

ID	Severity	Contract	Function
03	Informational	ShokenFinance	variables name, symbol, decimals

Description

Gas Optimization. Variables that are never changed could be declared as constant.

Recommendation

We recommend declaring those variables as constant.

Public function that could be declared external

ID	Severity	Contract	Function
04	Informational	ShokenFinance	Functions function setPairAddress() & getLiquidityBacking()

Description

Gas Optimization. Public function that could be declared external

Recommendation

Public functions that are never called by the contract should be declared external to save gas.

Priviliged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
setZeroFees	none	external
setNormalFees	none	external
manualRebase	none	external
transfer	none	external
transferFrom	none	external
addLiquidity	none	internal
swapBack	none	internal
withdrawAllToTreasury	none	external
withdrawAllToTreasury	none	external
setAutoRebase	bool _flag	external
setAutoAddLiquidity	bool _flag	external
setFeeReceivers	address _lpReceiver, address _treasuryReceiver, address _insuranceReceiver, address _nftHolderReceiver, address _BankReceiver	external
setWhitelist	address _addr	external
setBotBlacklist	address _botAddress, bool _flag	external

Function Name	Parameters	Visibility
setPairAddress	address _pairAddress	public
setLP	address _address	external

Statistics

Liquidity Info

Parameter	Result
Pair Address	0xCE930d632Ae7AF323A6ce91E1bb8D7c22eC07B9E
SHO Reserves	0.00 SHO
BNB Reserves	0.00 BNB
Liquidity Value	$0 USD

Token (SHO) Holders Info

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

LP (SHO/BNB) Holders Info

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

* All the data diplayed above was taken on-chain at block 16741093
* The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations

Liquidity Ownership

The token does not have liquidity at the moment of the audit, block 16741093

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