KISHIELD

Security Audit

DelishFinance Token

April 13, 2022

Table of Contents

Audit Summary

This report has been prepared for DelishFinance 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	0x4FA2682149a9CEE930Fd7117f159E9c5ad1eF513
Name	DelishFinance
Token Tracker	DelishFinance (Delish)
Decimals	9
Supply	500,000,000
Platform	Binance Chain
compiler	v0.8.7+commit.e28d00a7
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://bscscan.com/address/0x4FA2682149a9CEE930Fd7117f159E9c5ad1eF513
Url	https://www.delishfinance.com/

Main Contract Assessed

Name	Contract	Live
DelishFinance	0x4FA2682149a9CEE930Fd7117f159E9c5ad1eF513	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 DelishFinance 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 0x096f03098C008169DAe8E0BE45689CaB9Da5a4E9 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 owner cannot stop Trading.
- There is no fee for transfer between wallets.
- There is 5 min cooldown period for sells (_cooldownPeriod) and a max tx amount 0.1% of total supply for sells (_hotlistTxAmount).
- There is a antiwhale threshold (_isAntiWhaleEnabled) that acts as a max tx amount.
- Once the owner renounces ownership of the contract, none of the following are applicable.
- The owner can add/remove addresses from fees and rewards.
- The owner can change the fees with no restrictions.
- The owner can change the max tx amount with no restrictions.
- The onwer can change the _cooldownPeriod, _hotlistTxAmount, and _isAntiWhaleEnabled.
- The owner can add/remove addresses from the Anti Whale system.
- The owner can add/remove WALLETS from the blacklist.
- No high-risk Exploits/Vulnerabilities Were Found in token Source Code other than owner privileges.

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	2
Total	3

Findings

Division before Multiplication

ID	Severity	Contract	Function
01	Low	DelishFinance	function swapAndLiquify()

Description

Precision Loss. 'bnbForMarketing = newBalance.div(1000).mul(_percentageOfLiquidityForMarketing)' Division before multiplication can result in truncation and less accurate results

Recommendation

Multiplication should be performed before division to not lose precision.

Public function that could be declared external

ID	Severity	Contract	Function
02	Informational	DelishFinance	Functions setSwapAndLiquifyEnabled, isExcludedFromFee

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.

Missing events arithmetic

ID	Severity	Contract	Function
03	Informational	DelishFinance	Missing events for setBuyTaxes, setSellTaxes, setMaxTxPercent, setMinTokenBalance, setCooldownPeriod, setHotlistTxAmount, setPercentageOfLiquidityForMarketing

Description

Functions that change critical arithmetic parameters should emit an event.

Recommendation

Emit corresponding events for critical parameter changes.

Priviliged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
lock	uint256 time	public
excludeFromReward	address account	public
includeInReward	address account	external
setExcludedFromFee	address account, bool e	external
setBuyTaxes	uint256 taxFee, uint256 burnFee, uint256 liquidityFee	external
setSellTaxes	uint256 taxFee, uint256 burnFee, uint256 liquidityFee	external
setMaxTxPercent	uint256 maxTxPercent	external
setMarketingWallet	address marketingWallet	external
setMinTokenBalance	uint256 minTokenBalance	external
setCooldownPeriod	uint256 cooldownPeriod	external
setHotlistTxAmount	uint256 amount	external
setAntiWhaleEnabled	bool e	external
setExcludedFromAntiWhale	address account, bool e	external
setBlacklist	address account, bool e	external

Function Name	Parameters	Visibility
setPercentageOfLiquidityForMarketing	uint256 marketingFee	external
setSwapAndLiquifyEnabled	bool _enabled	public
setUniswapRouter	address r	external
setUniswapPair	address p	external
setExcludedFromAutoLiquidity	address a, bool b	external
swapAndLiquify	none	private

Statistics

Liquidity Info

Parameter	Result
Pair Address	0xEDb9aF11B3Cf654c8005dEa83174c10041Ba6fB2
Delish Reserves	0.00 Delish
BNB Reserves	0.00 BNB
Liquidity Value	$0 USD

Token (Delish) Holders Info

Parameter	Result
Delish Percentage Burnt	0.00%
Delish Amount Burnt	0 Delish
Top 10 Percentage Own	0.00%
Top 10 Amount Owned	0 Delish
Top 10 Aprox Value	$NaN USD

LP (Delish/BNB) Holders Info

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

* All the data diplayed above was taken on-chain at block 16917213
* 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 16917213

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