# KISHIELD

Security Audit

# libertycoin Token

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# **Audit Summary**

This report has been prepared for libertycoin 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	0x8111c15924643de3feb9c91c218e5657d7ff1dac
Name	libertycoin
Token Tracker	libertycoin (LBT)
Decimals	18
Supply	100,000,000,000
Platform	Binance Chain
compiler	v0.8.11+commit.d7f03943
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://bscscan.com/ address/0x8111c15924643de3feb9c91c218e5657d7ff1dac
Url	https://t.me/libertyplacenft

#### **Main Contract Assessed**

Name	Contract	Live
libertycoin	0x8111c15924643de3feb9c91c218e5657d7ff1dac	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	<b>⊘</b> 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	<b>⊘</b> 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 libertycoin 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 0x0278db6ECb052D31a766E055597164C75BC0b7A6 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.
- The onwer cannot change the fees.
- The onwer, contract, pair and the address zero are exempt from the max tx limit
- Trading is disabled for the public until owner opens trade, still whitelisted users can trade.
- Once the owner renounces ownership of the contract, none of the following are applicable.
- The owner can include addresses in the whitelist.
- The owner can set the max tx amount to 10,000,000 tokens at minimum.
- The owner can enable/disable and activate manually the buyback mechanism.
- The owner can add/exclude addresses from fees and dividents.
- No high-risk Exploits/Vulnerabilities Were Found in token Source Code.

## **Audit Passed**



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# **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	0
Info	5
Total	5





# **Findings**

#### Variables could be declared as constant

ID	Severity	Contract	Function
01	<ul><li>Informational</li></ul>	libertycoin	variables _lockTime, asdasd, WCRO, _decimals, _name, _symbol, deadAddress

#### **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
02	<ul><li>Informational</li></ul>	libertycoin	Functions minimumTokensBeforeSwapAmount, setMarketPairStatus, setIsExcludedFromFee, setSwapAndLiquifyEnabled, setSwapAndLiquifyByLimitOnly, getCirculatingSupply

#### **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	<ul><li>Informational</li></ul>	libertycoin	Missing events for setBuyTaxes, setSelTaxes, setDistributionSettings, setWalletLimit, setNumTokensBeforeSwap

#### **Description**

Functions that change critical arithmetic parameters should emit an event.

#### Recommendation

Emit corresponding events for critical parameter changes.

#### Too many digits

ID	Severity	Contract	Function
04	<ul><li>Informational</li></ul>	libertycoin	Variables _totalSupply, _walletMax, minimumTokensBeforeSwap

#### **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	Function
05	<ul><li>Informational</li></ul>	libertycoin	Variables asdasd, _lockTime

#### Description

Variables are never used in the contract logic.

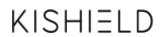
#### Recommendation

We recommend deleting this variable.



# Priviliged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
distributeUSDTDividends	uint256 amount	public
openTrade	none	external
includeToWhiteList	calldata _users	external
updateDividendTracker	address newAddress	public
updateUniswapV2Router	address newAddress	public
excludeFromFees	address account, bool excluded	public
excludeMultipleAccountsFro mFees	calldata accounts, bool excluded	public
setMarketingWallet	address wallet	external
setAutomatedMarketMakerP air	address pair, bool value	public
updateGasForProcessing	uint256 newValue	public
updateClaimWait	uint256 claimWait	external
setSwapTokensAtAmount	uint256 _value	external
excludeFromDividends	address account	external
_transfer	none	internal
recoverBEP20Tokens	address _token, uint256 _amount	external





Function Name	Parameters	Visibility
setMaxTxAmount	uint256 _amount	external
setSwapAndLiquifyEnabled	bool _enabled	public
setExcludedFromWhale	address account, bool _enabled	public
setMaxWalletLimit	uint256 amount	public
setBuybackUpperLimit	uint256 buyBackLimit	external
setMinBalanceForBuyback	uint256 _balanceInWei	external
setBuyBackEnabled	bool _enabled	external
manualBuyback	uint256 amountWei	external
excludeFromDividends	address account	external
updateClaimWait	uint256 newClaimWait	external
setBalance	address account, uint256 newBalance	external
processAccount	address account, bool automatic	public



# **Statistics**

## **Liquidity Info**

Parameter	Result
Pair Address	0x97aEDb29F87C19335d92D397004821aE5Db732b0
LBT Reserves	0.00 LBT
BNB Reserves	0.00 BNB
Liquidity Value	\$0 USD

#### Token (LBT) Holders Info

Parameter	Result
LBT Percentage Burnt	0.00%
LBT Amount Burnt	0 LBT
Top 10 Percentage Own	100.00%
Top 10 Amount Owned	100,000,000,000 LBT
Top 10 Aprox Value	\$NaN USD





#### LP (LBT/BNB) Holders Info

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

<sup>\*</sup> All the data diplayed above was taken on-chain at block 17293685

#### **Liquidity Ownership**

The token does not have liquidity at the moment of the audit, block 17293685







<sup>\*</sup> The tokens on industry-standard burn wallets are not included on the top 10 wallets calculations

#### **Disclaimer**

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