

KISHIELD

Security Audit

DDCToken Token

May 18, 2022





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Audit Summary

This report has been prepared for DDCToken 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	0x800B11c94b37CA647deD0DbBCa2ceCC6B0779dc6
Name	DDCToken
Token Tracker	DDCToken (DDC)
Decimals	18
Supply	100,000,000
Platform	Binance Chain
compiler	v0.8.10+commit.fc410830
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://bscscan.com/ address/0x800B11c94b37CA647deD0DbBCa2ceCC6B0779dc6
Url	digdogcrypto.com

Main Contract Assessed

Name	Contract	Live
DDCToken	0x800B11c94b37CA647deD0DbBCa2ceCC6B0779dc6	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 DDCToken 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 0x6d2F4e54600CaC538D2EBade7cdb18A464C98cad 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:

- The owner cannot mint tokens after initial deployment.
- The owner cannot change the min tx amount.
- The owner cannot pause trading.
- The owner cannot blacklist users.
- The maxSellAmount is set to 100,000 and cannot be changed.
- Once the owner renounces ownership of the contract, none of the following are applicable.
- The owner can change tax fee amounts up to a maximum total of 10%.
- The owner can include/exclude addresses from fees.
- The owner can withdraw BNB and ERC20, ERC721 and ERC1155 from the contract.
- No high-risk Exploits/Vulnerabilities Were Found in token Source Code.

Audit Passed



Technical 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	1
Total	1

Findings

Public function that could be declared external

ID	Severity	Contract	Function
01	● Informational	DDCToken	Functions renounceOwnership, transferOwnership

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.

Privileged Functions (onlyOwner)

Function Name	Parameters	Visibility
renounceOwnership	none	public
transferOwnership	address newOwner	public
withdraw	uint256 amount	external
withdrawERC20	none	external
withdrawERC20	none	external
withdrawERC721	address tokenAddress, calldata tokenIds	external
withdrawERC721	none	external
withdrawERC1155	address tokenAddress, uint256 id, uint256 amount	external
withdrawERC1155	none	external
setAutomatedMarketMakerPair	address pair, bool value	external
_setAutomatedMarketMakerPair	address pair, bool value	private
excludeFromFees	address account, bool excluded	public
excludeFromPause	address account, bool excluded	public
setReserveWallet	address _newWallet	external
setRewardsWallet	address _newWallet	external
setTeamWallet	address _newWallet	external



Function Name	Parameters	Visibility
setEcoassWallet	address _newWallet	external
setMarketingWallet	address _newWallet	external
setBurnFee	uint256 _newFee	public
setReserveFee	uint256 _newFee	public
setRewardsFee	uint256 _newFee	external
setTeamFee	uint256 _newFee	external
setEcoassFee	uint256 _newFee	external
setMarketingFee	uint256 _newFee	external
setTotalFee	uint256 _newFee	internal
startTrading	none	external



Statistics

Liquidity Info

Parameter	Result
Pair Address	0xE3A0D2DF948e53e88a1142DA0F19f6298F240642
DDC Reserves	0.00 DDC
BNB Reserves	0.00 BNB
Liquidity Value	\$0 USD

Token (DDC) Holders Info

Parameter	Result
DDC Percentage Burnt	0.00%
DDC Amount Burnt	0 DDC
Top 10 Percentage Own	98.00%
Top 10 Amount Owned	98,000,000 DDC
Top 10 Aprox Value	\$NaN USD

LP (DDC/BNB) Holders Info

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

* All the data displayed above was taken on-chain at block 17899136

* 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 17899136

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Disclaimer

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