

Smart Contract Audit

FOR

Dragon Crystals

DATED: 12 October 23'



AUDIT SUMMARY

Project name - Dragon Crystals

Date: 12 October 2023

Scope of Audit- Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

Audit Status: Passed

Issues Found

Status	Critical	High	Medium	Low	Suggestion
Open	0	0	0	0	0
Acknowledged	0	0	0	0	0
Resolved	0	0	0	0	0



USED TOOLS

Tools:

1- Manual Review:

A line by line code review has been performed by audit ace team.

2- BSC Test Network: All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

3-Slither:

The code has undergone static analysis using Slither.

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

https://testnet.bscscan.com/address/0xefba4aEf19340 F487269A4c1af18B8116Fb0B6B3#code



Token Information

Token Address:

0xA323E9005c63F618C9b37356CBB0dc131c20B37A

Name: Dragon Crystals

Symbol: DRAGONC

Decimals: 9

Netowrk: BSC

Token Type: BEP20

Owner: 0xeaBcEd23C8ff47FCd66580AF7A7F6a68719C1E8a

(at time of writing the audit)

Deployer: 0xeaBcEd23C8ff47FCd66580AF7A7F6a68719C1E8a

Token Supply: 650,000,000

Checksum:

666e75b39d29acabb5178c89e9848d7b41227d93

Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address: https://testnet.bscscan.com/address/0xefba4aEf19340F487269A4c1af18B8116Fb0B6B3#code



TOKEN OVERVIEW

buy fee: 0-25%

Sell fee: 0-25%

transfer fee: 0-25%

Fee Privilege: Owner

Ownership: Owned

Minting: None

Max Tx: No

Blacklist: No

Other Privileges:

- Initial distribution of the tokens
- Modifying fees



AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
- Manual review of the entire codebase by our experts, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
- Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
- Test coverage analysis determines whether the test cases are covering the code and how much code isexercised when we run the test cases.
- Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
- Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.



VULNERABILITY CHECKLIST





CLASSIFICATION OF RISK

Severity

- Critical
- High-Risk
- Medium-Risk
- Low-Risk
- Gas Optimization
 /Suggestion

Description

These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.

A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.

A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.

A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.

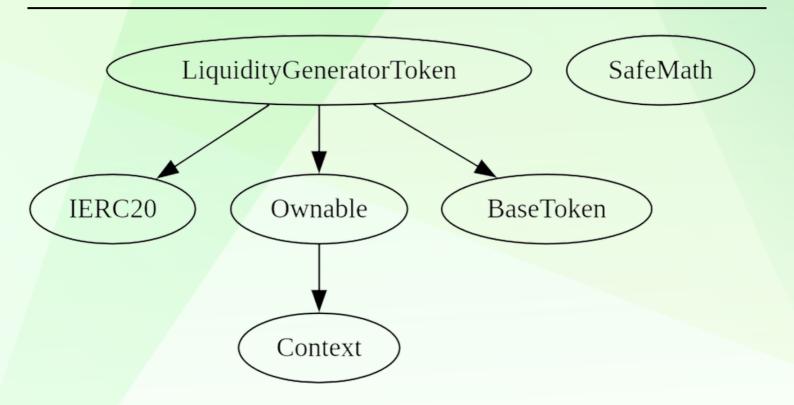
A vulnerability that has an informational character but is not affecting any of the code.

Findings

Severity	Found
♦ Critical	0
♦ High-Risk	0
♦ Medium-Risk	0
♦ Low-Risk	0
Gas Optimization /Suggestions	0



INHERITANCE TREE





POINTS TO NOTE

- Owner is able to change buy/sell/transfer fees in range
 0-25%
- Owner is not able to blacklist an arbitrary address.
- Owner is not able to disable trades
- Owner is not able to set max buy/sell/transfer/hold amounts
- Owner is not able to mint new tokens



STATIC ANALYSIS

Result => A static analysis of contract's source code has been performed using slither,

No major issues were found in the output



```
|Contract | Type |Bases |
| **Function Name** | **Visibility** | **Mutability** | **Modifiers** |
IIIIII
| **IERC20** | Interface | | | |
| LanceOf | External ! | NO! |
| - | transfer | External ! | • | NO! |
| - approve | External ! | | NO! |
📙 | transferFrom | External ! | 🌑 |NO! |
111111
| **Context** | Implementation | | | |
| L |_{msgSender} | Internal | | | |
111111
| **Ownable** | Implementation | Context ||| | |
| └ | <Constructor> | Public ! | ● |NO! |
| - | owner | Public | | | NO | |
| └ | renounceOwnership | Public ! | ● | onlyOwner |
| └ | transferOwnership | Public ! | ● | onlyOwner |
HIIII
| **SafeMath** | Library | | | |
1111111
```



```
| **Address** | Library | ||| | |
| | isContract | Internal | | | |
| - | sendValue | Internal 🔒 | 🛑 | |
| - | functionCall | Internal | - | | - | |
| - | functionCall | Internal | - | |
| - | functionCallWithValue | Internal 🔒 | 🛑 | |
| - | function Call With Value | Internal 🔒 | 🛑 | |
| - | functionStaticCall | Internal | | | |
| | | functionStaticCall | Internal | | | |
| - | functionDelegateCall | Internal 🔒 | 🛑 | |
| - | functionDelegateCall | Internal 🔒 | 🛑 | |
📙 | verifyCallResult | Internal 🤒 | | |
| **IUniswapV2Router01** | Interface | | | | |
| └ | addLiquidity | External ! | ● |NO! |
| └ | addLiquidityETH | External ! | ■ NO! |
| └ | removeLiquidity | External ! | ● |NO! |
| └ | removeLiquidityETH | External ! | ● |NO! |
| - | swapExactTokensForTokens | External ! | • | NO ! |
| | swapExactETHForTokens | External | | 1 NO | |
| L | swapETHForExactTokens | External ! | 11 | NO! |
| └ | getAmountOut | External ! | |NO! |
| L | getAmountIn | External ! | NO! |
| L | getAmountsOut | External | | NO | |
| L | getAmountsIn | External | | NO | |
1111111
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
| └ | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | ● | NO! |
| └ | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | ● | NO! |
| - | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | ● |NO! |
```



```
| | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 11 | NO! | | | |
| **IUniswapV2Factory** | Interface | | | |
| | | feeToSetter | External | | | NO | |
getPair | External | | NO | |
| └ | setFeeToSetter | External ! | ● |NO! |
| **BaseToken** | Implementation | | | |
IIIIIII
| **LiquidityGeneratorToken** | Implementation | IERC20, Ownable, BaseToken | | | | |
| └ | <Constructor> | Public ! | ■ | NO! |
| | name | Public | | NO | |
| - | symbol | Public | | | NO | |
| └ | totalSupply | Public ! | NO! |
| └ | transferFrom | Public ! | ● |NO! |
| └ | increaseAllowance | Public ! | ● |NO! |
| └ | decreaseAllowance | Public ! | ● |NO! |
| L | isExcludedFromReward | Public ! | NO! |
| - | reflectionFromToken | Public | | | NO | |
| L | tokenFromReflection | Public ! | NO! |
| - | excludeFromReward | Public ! | • | onlyOwner |
| └ | includeInReward | External ! | ● | onlyOwner |
| - | _transferBothExcluded | Private (*) | • | |
| └ | excludeFromFee | Public ! | ● | onlyOwner |
```



```
| | setTaxFeePercent | External ! | | onlyOwner | | |
| | setLiquidityFeePercent | External | | | | onlyOwner |
| | setCharityFeePercent | External | | | | onlyOwner |
| | setSwapBackSettings | External | | | | onlyOwner |
| - | < Receive Ether > | External ! | 111 | NO! |
| - | reflectFee | Private 🔐 | 🛑 | |
| - | getTValues | Private 🔐 | | |
| - | getRValues | Private 🔐 | | |
📙 📙 _getRate | Private 🔐 | | |
📙 🗀 _getCurrentSupply | Private 🔐 📙 📙
| └ | _takeLiquidity | Private 🔐 | 🌑 | | |
| └ | _takeCharityFee | Private 🔐 | ● | |
| └ | calculateTaxFee | Private 🔐 | | |
| └ | calculateLiquidityFee | Private 2 | | |
| └ | calculateCharityFee | Private 2 | | |
| └ | removeAllFee | Private 🔐 | 🌑 | |
| L | restoreAllFee | Private 🔐 | 🌑 | |
| L | isExcludedFromFee | Public ! | NO! |
| - | _transfer | Private 🔐 | 🛑 | |
| └ | swapAndLiquify | Private 🔐 | ● | lockTheSwap |
| └ | swapTokensForEth | Private 🔐 | ● | |
| - | addLiquidity | Private 🔐 | 🛑 | |
| └ | _tokenTransfer | Private 🔐 | ● | |
| └ | _transferStandard | Private 🔐 | ● | |
| L | transferToExcluded | Private 🔐 | 🌑 | |
| - | _transferFromExcluded | Private | | • | |
```

Legend



FUNCTIONAL TESTING

1- Adding liquidity (passed):

https://testnet.bscscan.com/tx/0x7b6a7f026b1762a27d6d630b8fcc6f1a13513f9ac0c3114ef3b85b1a683a0097

2- Buying when excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0x18550bb7040d016a4b7ffd8d32f0579127e395b98 0a9ad5bcc21840508373ff1

3- Selling when excluded (0% tax) from fees (passed):

https://testnet.bscscan.com/tx/0xb064c1d62165599416aaa23a29586770705aa71d6 68ae193fcbf42d420a4021b

4- Transferring when excluded from fees (0% tax) (passed):

https://testnet.bscscan.com/tx/0x215010d844c346cad5f200a4965582c6c790f7d13 ae51d1ae2770befce2dd5c1

5- Buying from a regular wallet (0-25% tax) (passed):

https://testnet.bscscan.com/tx/0xd00ad01ba96245ca49c5909e6f933f503ac3fa2b3dbc1f2d9af91b4ea0cb4e1a

6- Selling from a regular wallet (0-25% tax) (passed):

https://testnet.bscscan.com/tx/0x51d0b75b64a7b994a34aa55f36f52cbe21c808c05 951aeb5668ca765cf660d85

7- Transferring from a regular wallet (0-25% tax) (passed):

https://testnet.bscscan.com/tx/0x137674c62d62454257ecdc763e2e76c162bed35c6b0598fde66ba61e4e64a416

8- Internal swap (marketing bnb + auto-liquidity) (passed):

https://testnet.bscscan.com/tx/0x51d0b75b64a7b994a34aa55f36f52cbe21c808c05 951aeb5668ca765cf660d85



DISCLAIMER

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment. Team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed. The Auditace team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Auditace receive a payment to manipulate those results or change the awarding badge that we will be adding in our website. Always Do your own research and protect yourselves from scams. This document should not be presented as a reason to buy or not buy any particular token. The Auditace team disclaims any liability for the resulting losses.



ABOUT AUDITACE

We specializes in providing thorough and reliable audits for Web3 projects. With a team of experienced professionals, we use cutting-edge technology and rigorous methodologies to evaluate the security and integrity of blockchain systems. We are committed to helping our clients ensure the safety and transparency of their digital assets and transactions.



https://auditace.tech/



https://t.me/Audit_Ace



https://twitter.com/auditace_



https://github.com/Audit-Ace