

Smart Contract Security Audit

AUDIT RATE TECH

for

Coin Resort



Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Audit details:

Audited project: Coin Resort

Total supply: 100,000,000

Token ticker: CRST

Decimals: 18

Contract address: 0xd52f528e96f23C0fE03A817cA6cd3D33F91297E7

Languages: Solidity (Smart contract)

Platforms and Tools: Remix IDE, Truffle, Truffle Team, Ganache, Solhint, VScode, Mythril,

Contract Library

Compiler Version: v0.6.12+commit.27d51765

Optimization Enabled: Yes with 200 runs

Contract Deployer Address: 0x2DcD71d4539C7A3aB7157DcAF8bcc4E2b4eDfc5d

Blockchain: Binance Smart Chain

Project website: <https://coinresort.io/>

The audit items and results:

(Other unknown security vulnerabilities are not included in the audit responsibility scope)

Audit Result: Passed

Audit Date: July 18, 2022

Audit Team: AUDIT RATE TECH

<https://www.auditrate.tech/>

Introduction

This Audit Report mainly focuses on the overall security of Coin Resort Smart Contract. With this report, we have tried to ensure the reliability and correctness of their smart contract by complete and rigorous assessment of their system's architecture and the smart contract codebase.

Auditing Approach and Methodologies applied

The AUDIT RATE TECH team has performed rigorous testing of the project starting with analyzing the code design patterns in which we reviewed the smart contract architecture to ensure it is structured and safe use of third-party smart contracts and libraries.

Our team then performed a formal line by line inspection of the Smart Contract to find any potential issue like race conditions, transaction-ordering dependence, timestamp dependence, and denial of service attacks.

In the Unit testing Phase, we coded/conducted custom unit tests written for each function in the contract to verify that each function works as expected.

In Automated Testing, we tested the Smart Contract with our in-house developed tools to identify vulnerabilities and security flaws.

The code was tested in collaboration of our multiple team members and this included -

- Testing the functionality of the Smart Contract to determine proper logic has been followed throughout the whole process.
- Analyzing the complexity of the code in depth and detailed, manual review of the code, lineby-line.
- Deploying the code on testnet using multiple clients to run live tests.
- Analyzing failure preparations to check how the Smart Contract performs in case of any bugs and vulnerabilities.
- Checking whether all the libraries used in the code are on the latest version.
- Analyzing the security of the on-chain data.

Audit Goals

The focus of the audit was to verify that the Smart Contract System is secure, resilient and working according to the specifications. The audit activities can be grouped in the following three categories:

Security

Identifying security related issues within each contract and the system of contract.

Sound Architecture

Evaluation of the architecture of this system through the lens of established smart contract best practices and general software best practices.

Code Correctness and Quality

A full review of the contract source code. The primary areas of focus include:

- Accuracy
- Readability
- Sections of code with high complexity
- Quantity and quality of test coverage

Issue Categories

Every issue in this report was assigned a severity level from the following:

High level severity issues

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium level severity issues

Issues on this level could potentially bring problems and should eventually be fixed.

Low level severity issues

Issues on this level are minor details and warnings that can remain unfixed but would be better fixed at some point in the future.

Manual Audit:

For this section the code was tested/read line by line by our developers. We also used Remix IDE's JavaScript VM and Kovan networks to test the contract functionality.

Automated Audit

Remix Compiler Warnings

It throws warnings by Solidity's compiler. If it encounters any errors the contract cannot be compiled and deployed. No issues found.

Issues Checking Status

| SWC ID | Description | Checking status |
|---------|---|-----------------|
| SWC-100 | Function Default Visibility | Passed |
| SWC-101 | Integer Overflow and Underflow | Passed |
| SWC-102 | Outdated Compiler Version | Passed |
| SWC-103 | Floating Pragma | Passed |
| SWC-104 | Unchecked Call Return Value | Passed |
| SWC-105 | Unprotected Ether Withdrawal | Passed |
| SWC-106 | Unprotected SELFDESTRUCT Instruction | Passed |
| SWC-107 | Reentrancy | Passed |
| SWC-108 | State Variable Default Visibility | Passed |
| SWC-109 | Uninitialized Storage Pointer | Passed |
| SWC-110 | Assert Violation | Passed |
| SWC-111 | Use of Deprecated Solidity Functions | Passed |
| SWC-112 | Delegatecall to Untrusted Callee | Passed |
| SWC-113 | DoS with Failed Call | Passed |
| SWC-114 | Transaction Order Dependence | Passed |
| SWC-115 | Authorization through tx.origin | Passed |
| SWC-116 | Block values as a proxy for time | Passed |
| SWC-117 | Signature Malleability | Passed |
| SWC-118 | Incorrect Constructor Name | Passed |
| SWC-119 | Shadowing State Variables | Passed |
| SWC-120 | Weak Sources of Randomness from Chain Attributes | Passed |
| SWC-121 | Missing Protection against Signature Replay Attacks | Passed |
| SWC-122 | Lack of Proper Signature Verification | Passed |
| SWC-123 | Requirement Violation | Passed |
| SWC-124 | Write to Arbitrary Storage Location | Passed |
| SWC-125 | Incorrect Inheritance Order | Passed |
| SWC-126 | Insufficient Gas Griefing | Passed |
| SWC-127 | Arbitrary Jump with Function Type Variable | Passed |
| SWC-128 | DoS With Block Gas Limit | LOW |
| SWC-129 | Typographical Error | Passed |
| SWC-130 | Right-To-Left-Override control character (U+202E) | Passed |
| SWC-131 | Presence of unused variables | Passed |
| SWC-132 | Unexpected Ether balance | Passed |
| SWC-133 | Hash Collisions With Multiple Variable Length Arguments | Passed |
| SWC-134 | Message call with hardcoded gas amount | Passed |
| SWC-135 | Code With No Effects | Passed |
| SWC-136 | Unencrypted Private Data On-Chain | Passed |

Owner privileges

741 renounceOwnership
750 transferOwnership
800 distributeBUSDDividends
1306 updateDividendTracker
1323 updateUniswapV2Router
1332 excludeFromFees
1339 excludeMultipleAccountsFromFees
1347 setExcludeFromAll
1352 setMarketingWallet
1356 setSwapTokensAtAmount
1360 setFee
1369 setAutomatedMarketMakerPair
1388 updateGasForProcessing
1395 updateClaimWait
1419 excludeFromDividends
1466 setMaxTx
1645 withdrawStuckBNB
1650 removeStuckToken
1692 excludeFromDividends
1702 updateClaimWait
1791 setBalance
1855 processAccount

Top Token Holders

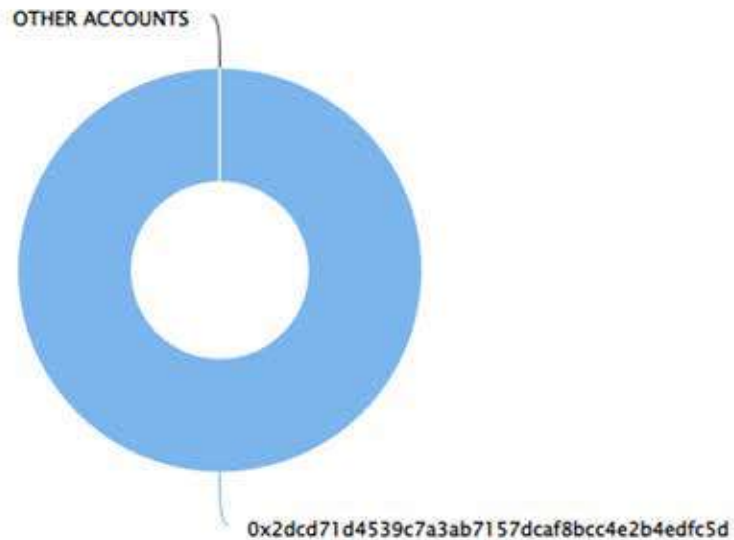
At the time of the audit

The top 3 holders collectively own 100.00% (100,000,000.00 Tokens) of Coin Resort

Token Total Supply: 100,000,000.00 Token | Total Token Holders: 1

Coin Resort Top 3 Token Holders

Source: BscScan.com



(A total of 100,000,000.00 tokens held by the top 3 accounts from the total supply of 100,000,000.00 token)

| Rank | Address | Quantity (Token) | Percentage |
|------|--|------------------|------------|
| 1 | 0x2dcd71d4539c7a3ab7157dcaf8bcc4e2b4edfc5d | 100,000,000 | 100.0000% |

KYC/Doxx

At the time of the audit, there is no information about the conduct of KYC / Doxx

Conclusion

Owner can set fees up to 25%

```
function setFee(uint256 _rewardFee, uint256 _liquidityFee, uint256 _marketingFee) external onlyOwner{
    BUSDRewardsFee = _rewardFee;
    liquidityFee = _liquidityFee;
    marketingFee = _marketingFee;
    totalFees = BUSDRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees <= 25, "Fees can't be more than 25%");}
```

No mint function found

Owner can set max tx amount >0,1%

```
function setMaxTx(uint256 maxTxAmount) external onlyOwner() {
    _maxTxAmount = maxTxAmount;
    require (_maxTxAmount >= 100000 * 10**18, "can't set max trx amount less than 0.1%");}
```

Owner cannot pause trading

Smart contracts contains the following risks:

Out of gas

Issue:

`excludeMultipleAccountsFromFees()`

The function `excludeMultipleAccountsFromFees()` uses the loop to exclude multiple accounts from fees. Function will be aborted with `OUT_OF_GAS` exception if there will be a long addresses list.

Note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner. The analysis of the contract does not give complete security and includes only the analysis that is indicated in the report. We do not analyze locked tokens or LP tokens, the presence of KYC in other companies, and so on. Also, our audit is not a recommendation for investment. All responsibility for the loss of investment lies with you!

