

DogeBSC Smart Contract Security Audit

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.

Background

TechRate was commissioned by DogeBSC to perform an audit of smart contracts:

• https://bscscan.com/address/0x1060ae67986a1a5a02ee023e3f5dfc2f5d04eb b4#code

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Issues Checking Status

| Nº | Issue description. | Checking status |
|----|--|-----------------|
| 1 | Compiler warnings. | Passed |
| 2 | Race conditions and Reentrancy. Cross-function race conditions. | Passed |
| 3 | Possible delays in data delivery. | Passed |
| 4 | Oracle calls. | Passed |
| 5 | Front running. | Passed |
| 6 | Timestamp dependence. | Passed |
| 7 | Integer Overflow and Underflow. | Passed |
| 8 | DoS with Revert. | Passed |
| 9 | DoS with block gas limit. | Passed |
| 10 | Methods execution permissions. | Passed |
| 11 | Economy model. If application logic is based on an incorrect economic model, the application would not function correctly and participants would incur financial losses. This type of issue is most often found in bonus rewards systems, Staking and Farming contracts, Vault and Vesting contracts, etc. | Passed |
| 12 | The impact of the exchange rate on the logic. | Passed |
| 13 | Private user data leaks. | Passed |
| 14 | Malicious Event log. | Passed |
| 15 | Scoping and Declarations. | Passed |
| 16 | Uninitialized storage pointers. | Passed |
| 17 | Arithmetic accuracy. | Passed |
| 18 | Design Logic. | Passed |

| 19 | Cross-function race conditions. | Passed |
|----|---------------------------------|--------|
| 20 | Safe Zeppelin module. | Passed |
| 21 | Fallback function security. | Passed |

Security Issues

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

1. Out of gas

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- ☐ The function includeInReward() uses the loop to find and remove addresses from the _excluded list. Function will be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.
- ☐ The function _getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

Recommendation:

Use EnumerableSet instead of array or do not use long arrays.

Owner privileges

1. Owners privileges

| | 1 |
|--------|---|
| There | are 4 owners in this contract. Their addresses: |
| | 0x5f5c5947af1978e1098c27333693c739b40f67d7 |
| | 0x5b00a1d44ee410647873bda8913186bb806d86a4 |
| | 0xc294b8dd7d48d7cbbd2553f6bd5378a825565417 |
| | 0xcd79ddcdd1c22bad1bfd5764fa0c64eb83ec6695 |
| They I | nave the next privileges (By having 3 of 4 owner votes) |
| | Owners can change the tax fee up to 10%. |
| | Owners can change the liquidity fee up to 10%. |
| | Owners can change the charity fee up to 10%. |
| | Owners can change the community fee up to 10%. |
| | Owners can change the burn fee up to 10%. |
| | The sum total of burn, reward, liquidity, community and charity |
| | percent can never exceed 10% in total. |

| Owners can exclude from the fee. |
|--|
| Owners can withdraw any amount from the charity address. |
| Owners can withdraw any amount from the community address. |

Conclusion

Smart contracts do not contain any high severity issues! Owners of the smart contract have some privileges, mentioned above.

Techrate 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.