

Smart Contract Audit

FOR

DMScoin

DATED: 27 Feb, 2024



AUDIT SUMMARY

Project name - DMScoin

Date: 27 Feb, 2024

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	1	1
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/0x04bcc12E35 6e1eFb959FEa4a75dD2a1C62220B00#code



Token Information

Token Name: DMScoin

Token Symbol: DMS

Decimals: 18

Token Supply: 10000000000

Network: BscScan

Token Type: BEP-20

Token Address:

0xD4121306B742E9d9623CB541CA5Bd5BF13F0E204

Checksum:

ke1c3a4fbb6e83e8393a57617b5a5B21

Owner:

0xB7Cd7175B8D423B10640756Ee547AcF666e82A26 (at time of writing the audit)

Deployer:

0xB7Cd7175B8D423B10640756Ee547AcF666e82A26



TOKEN OVERVIEW

Fees:

Buy Fee: 0-0%

Sell Fee: 0-0%

Transfer Fee: 0-0%

Fees Privilege: Owner

Ownership: Owned

Minting: No

Max Tx Amount/ Max Wallet Amount: No

Blacklist: No



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.

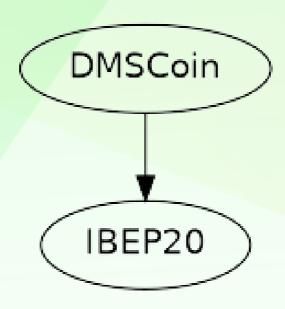


VULNERABILITY CHECKLIST





INHERITANCE TREE





STATIC ANALYSIS

A static analysis of the code was performed using Slither. No issues were found.

Pragma version^0.8.0 (DMSCoin.sol#6) allows old versions

solc-0.8.0 is not recommended for deployment
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity

INFO:Detectors:

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#conformance-to-solidity-naming-conventions

INFO:Detectors:

DMSCoin.decimals (DMSCoin.sol#23) should be constant

DMSCoin.symbol (DMSCoin.sol#22) should be constant

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant

Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable

INFO:Slither:DMSCoin.sol analyzed (2 contracts with 93 detectors), 7 result(s) found



FUNCTIONAL TESTING

1- Approve (passed):

https://testnet.bscscan.com/tx/0x820347531ab35b8ec6e0e4104e9493318f5 e82b4bed4ca4988fd36f06a1013e3

2- Burn (passed):

https://testnet.bscscan.com/tx/0x77d28c61c1c4955c756f7edc17159a93bfd6 77ac04272a8bd3ba8e2f2d26cd04

3- Transfer (passed):

 $\frac{https://testnet.bscscan.com/tx/0x706f9c1f91ba410dc77a90c85f68019b64ce}{39dba1da89baaeaa161d2f43d3e4}$



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	1
Gas Optimization /Suggestions	1



MANUAL TESTING

Centralization - Missing Visibility

Severity: Low

Subject: Visibility

Status: Open

Overview:

It's simply saying that no visibility was specified, so it's going with the default. This has been related to security issues in contracts.

```
mapping(address => uint256) balances;
mapping(address => mapping(address => uint256)) allowed;
```

Suggestion:

You can easily silence the warning by adding the public/private.



MANUAL TESTING

Optimization

Severity: Informational

Subject: Floating Pragma

Status: Open

Overview:

It is considered best practice to pick one compiler version and stick with it. With a floating pragma, contracts may accidentally be deployed using an outdated.

pragma solidity ^0.8.0;

Suggestion:

Adding the latest constant version of solidity is recommended, as this prevents the unintentional deployment of a contract with an outdated compiler that contains unresolved bugs.



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