HackSafe

Smart Contract Security Audit Report

DMJ Token

May 2022

Security Status

★ ★ ★ ★ ★

www.hacksafe.io

Audit Details

Audited project
DMJ Token

Deployer address
TQ6y7HY1NfABrRqqDcMka7JnUtNWwMezeG

Client contacts
DMJ Token team

Blockchain
Tron chain

Website
not provided by team

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.

Procedure

Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

Background

HackSafe was commissioned by DMJ Token to perform an audit of smart contract:

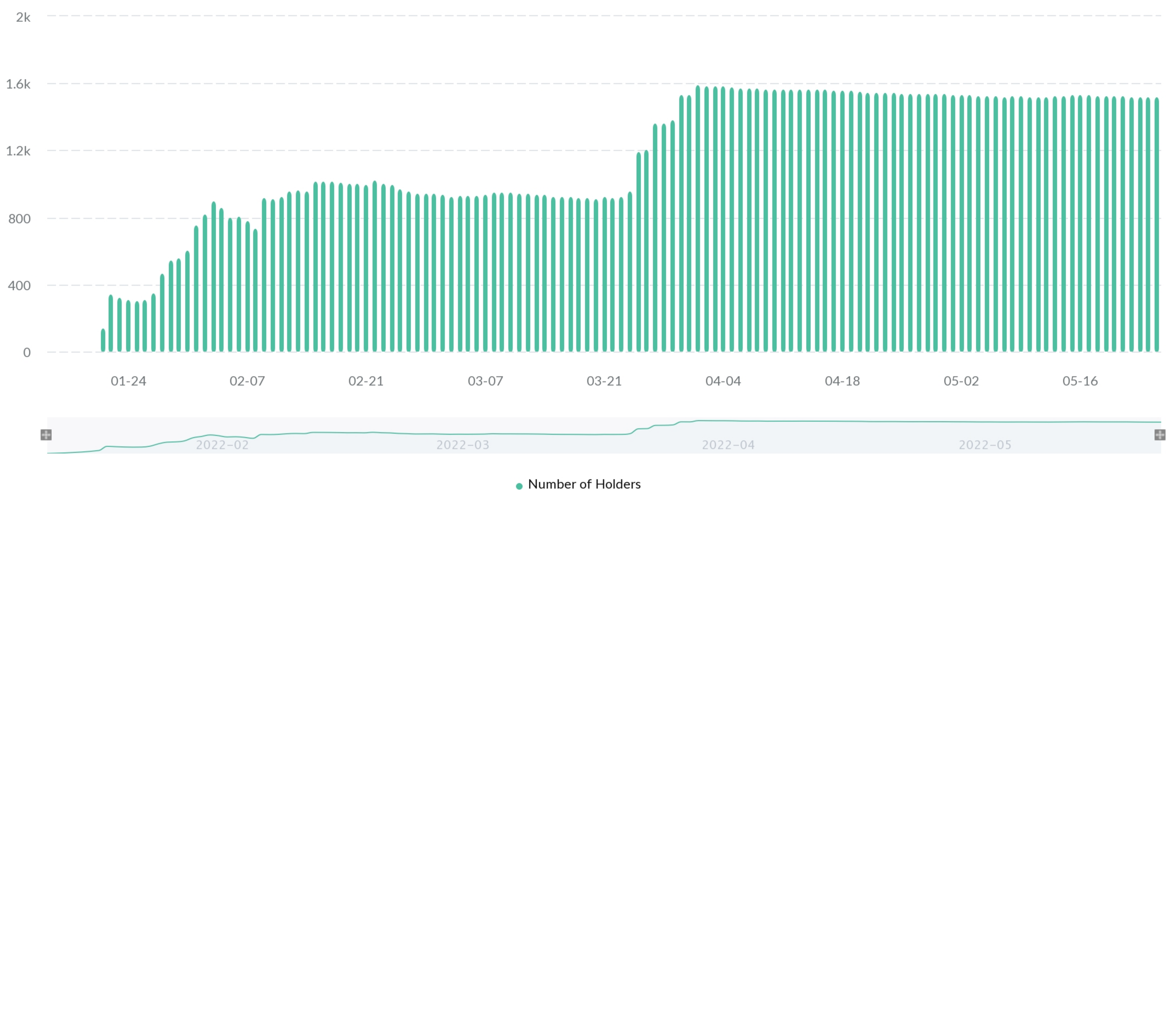
- https://tronscan.org/#/token20/TLmDXXa3Da3yu6M4dVSFTRSttmqPvNHvg1/code

Contract Details

Token contract details for 26.05.2022

Contract name	: Token
Contract address	: TLmDXXa3Da3yu6M4dVSFTRSttmqPvNHvg1
Compiler version	: solidity 0.5.10
Total supply	: 2,100.000000
Circulation supply	: 2,100.000000
Token Ticker	: DMJ
Decimals	: 6
Token Holders	: 1,520
Transactions count	: 10,210
Contract deployer address	: TQ6y7HY1NfABrRqqDcMka7JnUtNWwMezeG
owner address	: No Owner

DMJ Token Distribution



DMJ Token Distribution

DMJ Top 20 Token Holders

Holders' Address

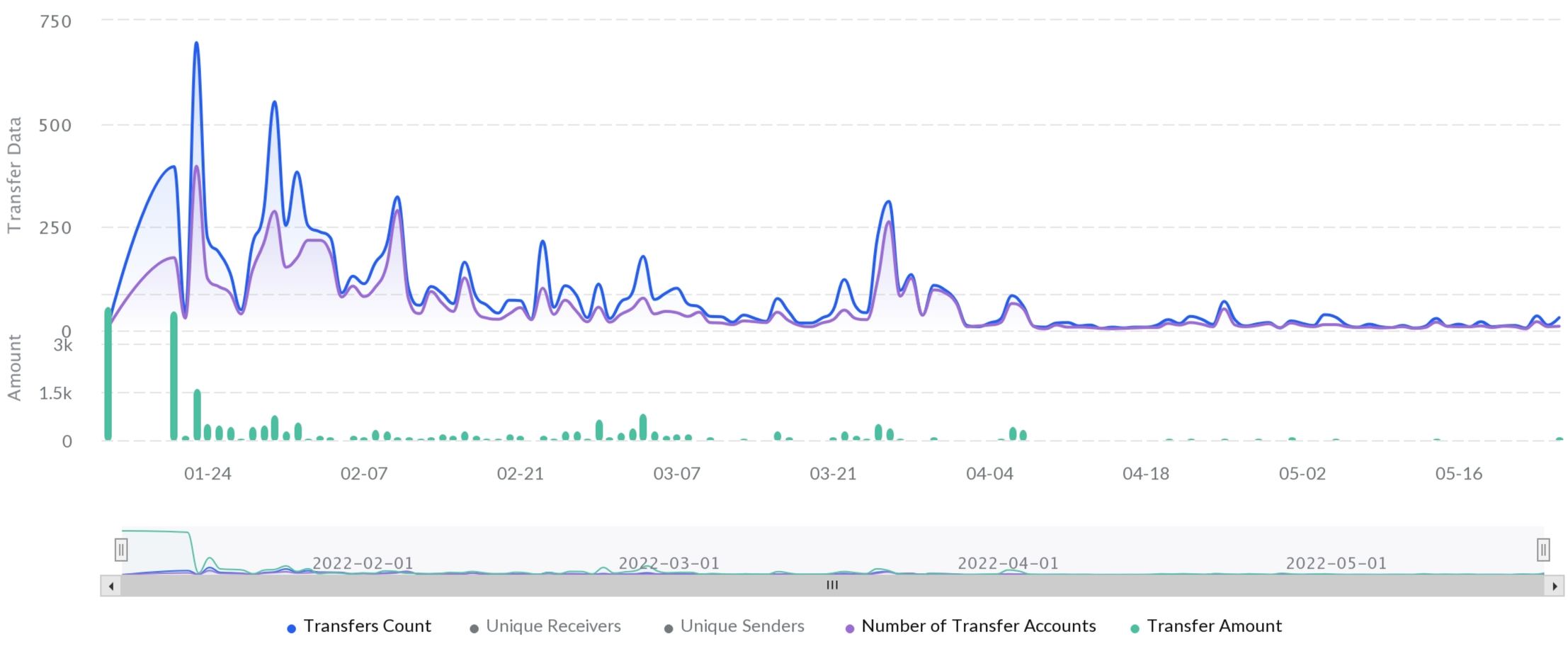
The latest 10,000 records of a total of 1,520 addresses are shown here.

Search Address

Rank	Address	Amount	Value	Percentage
1	SC TAnemnVZ59kh9UDhQAehBkXn... D7vEd	1,151.984480	$59,071.96	54.856404%
2	SC TKttCAtG54yn1FyoUsujNDdVsS... Umb4k	598.320000	$30,680.91	28.491429%
3	TRUx8UYmyZGpC7k4abSWsRnfsFLbLH48nx	25.204178	$1,292.43	1.200199%
4	TJ5wrfeQi5cBbPLdrnBKmikmcBbMiCv399	21.538867	$1,104.48	1.02566%
5	TB8NWpQahZ1AsP5pgiAi9UKFEu2iXP8zHm	20.000000	$1,025.57	0.952381%
6	TYNsRKFCmX5ERE6VPLa2sLB5Z19sdGKoZs	16.861765	$864.64	0.802941%
7	TDRdP8uw9DnHXrp7Ruw47HtFY6Q... RWVq1	16.565222	$849.44	0.78882%
8	TLecD3DPbJFTVVpMLupYAV8yjXbwWV9uo3	15.215033	$780.2	0.724525%
9	TBXfuZhrUZfwn2CTcrB9VWbjk6BAjnQyXA	14.536222	$745.39	0.692201%
10	TMpNbNapMTuDEo9WgHs3859aPfJtirEBqv	11.933569	$611.93	0.568265%
11	TYxMHC2WSEJjAUacJdCT25p7kna2TL9KiS	10.785000	$553.04	0.513571%
12	TVd16EdnYFv46t3izBJR1qdXkJcWS8DzsD	9.010000	$462.02	0.429048%
13	TFewX14yE872PovQVQrJ1koAGsTjURKBGx	9.000000	$461.51	0.428571%
14	TQkhgAtgZjyNc9J9CasoE994Eo8kqcs3GF	7.426969	$380.84	0.353665%
15	TEjhxgLHBuEH52EY7PqbK1Nuxg3P5GE4mH	6.816600	$349.54	0.3246%
16	TFscPvFfCKaK7FDQrsj98i1pgQtq9a9HEe	6.081803	$311.87	0.28961%
17	TExNDDjZHjawAk6QzKMLGGYkDLhA7Rmrw8	6.000000	$307.67	0.285714%
18	TWnc7nxwZRnWWRFbXLH94NHGzki... C4683	5.812270	$298.04	0.276775%
19	TJfUhdhSXU75JkcZLbJiq4eGLE431XBkK5	5.755352	$295.13	0.274064%
20	TDJ159Wh2YDmnFHXz7SYjrhtW89aC9QeYo	5.280311	$270.77	0.251443%

DMJ Token Distribution

DMJ Token Transfer Data



Contract functions details

ERC20.sol
+ ERC20(IERC20)

-[Pub] totalSupply
-[Pub] balanceOf
-[Pub] transfer
-[Pub] allowance
-[Pub] approve
-[Pub] transferFrom
-[Pub] increaseAllowance#
-[Pub] decreaseAllowance#
- [Int] _transfer #
- [Int] _mint #
- [Int] _burn #
- [Int] _approve #
-[Int] _burnFrom #

ERC20Detailed.sol
+ ERC20Detailed (IERC20)

-[Pub] <constructor> #
- [Pub] name
- [Pub] symbol
-[Pub] decimals

IERC20.sol
+ IERC20

-[Ext] totalSupply
-[Ext] balanceOf
-[Ext] transfer
-[Ext] allowance
-[Ext] approve
-[Ext] transferFrom

SafeMath.sol
+ SafeMath

-[Int] add
-[Int] sub
-[Int] mul
-[Int] div
-[Int] mod

Contract functions details

Token.sol
+ Token (ERC20, ERC20Detailed)
    -[Pub] <constructor> #

($) = payable function
= non-constant function

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Low issue
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	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 of the contract.	Passed
12.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
17.	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed

Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

Security Issues

- **Critical Severity Issues**
  No critical severity issue found.

- **High Severity Issues**
  No high severity issue found.

- **Medium Severity Issues**
  No medium severity issues found.

- **Low Severity Issues**
  One low severity issue found.

1. Unlocked Compiler Version.

- **Description**

  The contract utilizes an unlocked compiler version. An unlocked compiler version in the contract's source code permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to differing compiler version numbers. This can lead to ambiguity when debugging as compiler-specific bugs may occur in the codebase that would be difficult to identify over a span of multiple compiler versions rather than a specific one.

- **Recommendation**

  It is advisable that the compiler version is alternatively locked at the lowest version possible so that the contract can be compiled. For example, for version ^0.5.0 the contract should contain the following line:

  pragma solidity 0.5.0;

Conclusion

Smart contract contains low severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe 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.