

Smart Contract Security Audit Report

F5 Sleep

June 2022



Audit Details



Audited project

F5 Sleep



Deployer address

0x863b49ae97c3D2A87Fd43186dfd921F42783C853



Client contacts

F5 Sleep team



Blockchain

Binance Smart Chain



Website

Not provided

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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.

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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.

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Background

HackSafe was commissioned by F5 Sleep token to perform an audit of smart contracts:

• https://bscscan.com/address/0x2273ba24ac3cbd931f39a9df40613ab97c5a488a#code

The purpose of the audit was to achieve the

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

The information in this report should be 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.

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Contract Details

Token contract details for 18.06.2022

Token Type : ERC20

Contract name : ENMT

Contract address : 0x2273ba24aC3Cbd931f39A9Df40613Ab97c5A488a

Compiler version : v0.8.1+commit.df193b15

Total supply : 1,300,000

Token Ticker : F5S

Decimals : 18

Token Holders : 838

Top 100 token holder's: 90.97%

dominance

Transactions count : 9,495

Contract deployer

address

: 0x863b49ae97c3D2A87Fd43186dfd921F42783C853

Crowdsale address : No owner

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Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are "Well Secure". This token contract does not contain owner control, which do make it fully decentralized as owner does not have control over smart contract.

Insecure Poor secured Secure Well-secured



You are here

We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the Audit overview section.

We found 0 critical, 0 high, 0 medium and 2 low and some very low-level issues. These issues are not critical ones.

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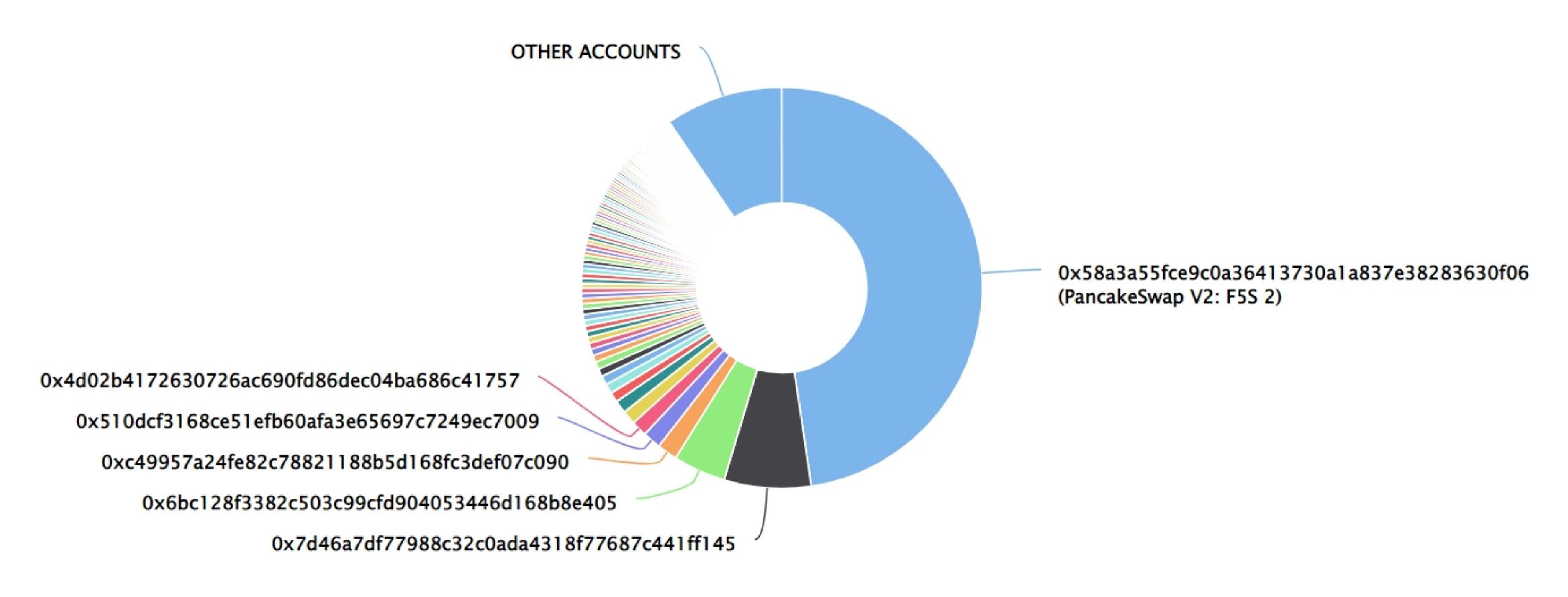
F5 Sleep Distribution

The top 100 holders collectively own 90.50% (1,176,535.78 Tokens) of F5Sleep Token

▼ Token Total Supply: 1,300,000.00 Token | Total Token Holders: 838

F5Sleep Token Top 100 Token Holders

Source: BscScan.com



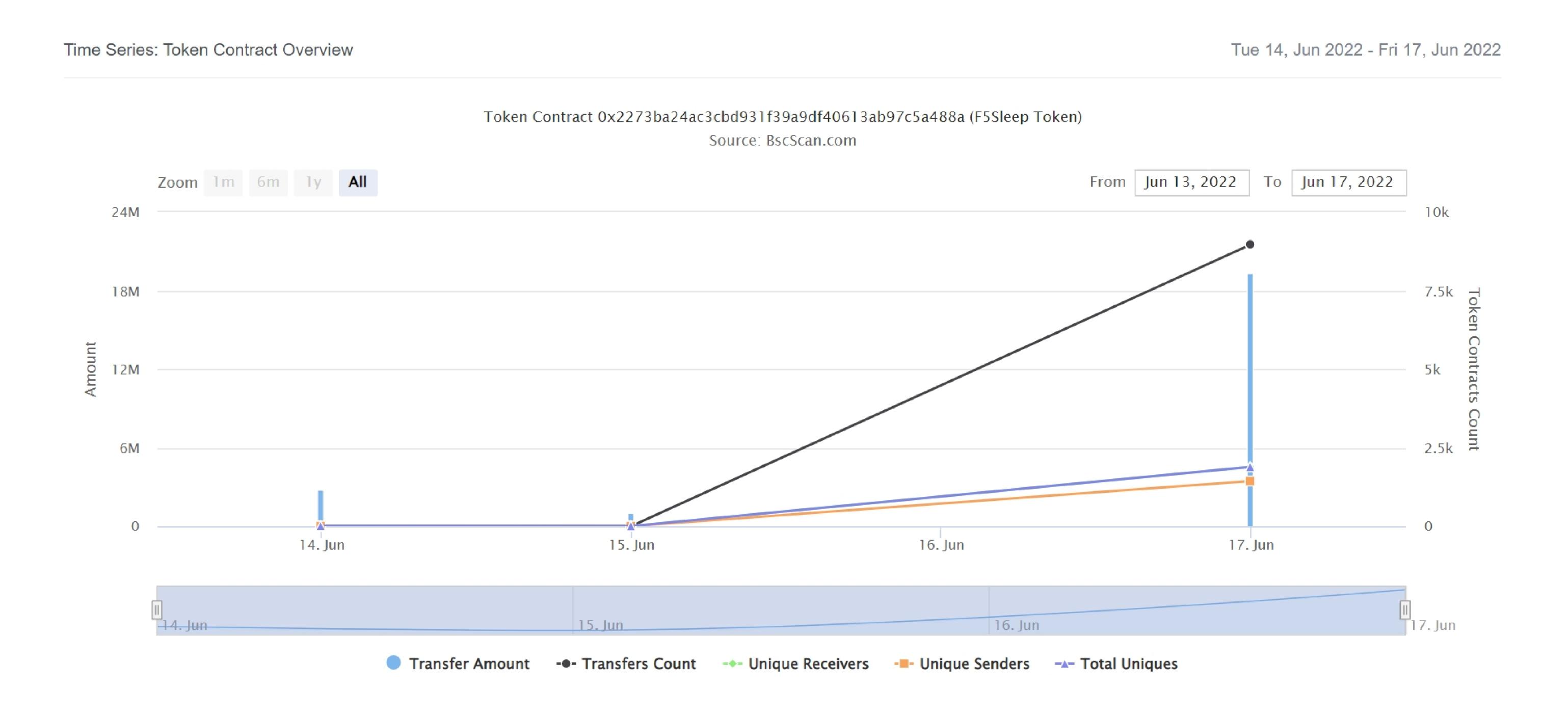
F5 Sleep Top 20 Token Holders

(A total of 1,176,535.78 tokens held by the top 100 accounts from the total supply of 1,300,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	PancakeSwap V2: F5S 2	619,647.798899408494047771	47.6652%
2	0x7d46a7df77988c32c0ada4318f77687c441ff145	91,000	7.0000%
3	0x6bc128f3382c503c99cfd904053446d168b8e405	54,953.198089759947889001	4.2272%
4	0xc49957a24fe82c78821188b5d168fc3def07c090	21,485.180502248977579089	1.6527%
5	0x510dcf3168ce51efb60afa3e65697c7249ec7009	18,958.752552851283087662	1.4584%
6	0x4d02b4172630726ac690fd86dec04ba686c41757	16,253.222316737350799729	1.2502%
7	0xb5395d0531a4ccbef0668a99baa28dd0ae258c8b	14,744.227581016700266043	1.1342%
8	0x84a545cc9a9435c8f6b3517874b1e746f08c36fb	13,509.759583485943500904	1.0392%
9	0x0d9b1e53cbb251572d982d9f96520e8d40d22bb0	10,257.39	0.7890%
10	0x450bf7bd11b9d3d17b2f25b7c2f49af5dc7565b2	10,164.851532389372542687	0.7819%
11	0x01abe76da03de30641836de0cb1a87e0043afa4d	9,459.530555559391066889	0.7277%
12	0x947de4df890e35a938dcff001adb8913ffe5f0d4	8,286.262467038614360662	0.6374%
13	0x40b2ad225cdf4c52fffdae017a491ef6413dcd53	7,929.430441814391823157	0.6100%
14	🖹 0x6145d088e7ceb6bfb9b0bf94fbc61b6dc6d4baf6	7,263.86777165374844584	0.5588%
15	0xd571b0e63d0c05c0fc8c6fc51bfba11654bdb6a0	6,775.755931745395420442	0.5212%
16	0x7e28815d458f694ad1da09753f6bc93f743cd76d	6,428.589208644169201082	0.4945%
17	0x43955a4e344d61ae48a4f724388a81ae8b4c6552	6,183.784835305611318931	0.4757%
18	0x376cf0ef4168eb48b9b0f335754a3a6d235fe4cc	6,172.550796447696279633	0.4748%
19	0xb4a4ce737cd798d29761d2ed1ff9794c99ddbaf4	6,000	0.4615%
20	0x6a02aeddb994cbb1d63d5fbe49a46205f192cf2f	5,941.064724717741606301	0.4570%

F5 Sleep Distribution

F5 Sleep Contract Overview



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Contract functions details

```
ENMT.sol
+ ENMT (ERC20)
    -< constructor >
    -[Pub] decimals
    -[Pub] burn
Context.sol
+ Context
    -[Int] _msgSender
    -[Int] _msgData
ERC20.sol
+ ERC20 (ERC20Basic)
    -< constructor >
    -[Pub] name
   -[Pub] symbol
    -[Pub] decimals
    -[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] _beforeTokenTransfer #
```

Contract functions details

```
IERC20.sol
+ [Int] IERC20

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

($) = payable function
# = non-constant function
```

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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

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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.

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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 IssuesOne 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 v0.8.0 the contract should contain the following line:

pragma solidity 0.8.0;

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Conclusion

Smart contract contains one 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.

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