

Smart Contract Security Audit Report

VOISE

September 2022

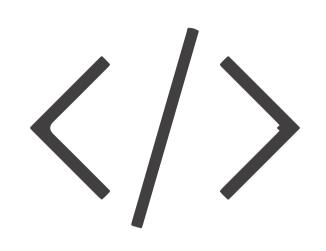


Audit Details



Audited project

VOISE



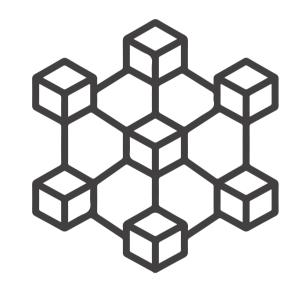
Deployer address

0xe009C117F0745EDC4C2bf8812dF259a43A69512D



Client contacts

VOISE Team



Blockchain

Ethereum



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 VOISE to perform an audit of smart contract:

• https://etherscan.io/token/0x83eEA00D838f92dEC4D1475697B9f4D3537b56E3#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 19.09.2022

Token Type	: ERC20
Contract name	: VOISE
Contract address	: 0x83eEA00D838f92dEC4D1475697B9f4D3537b56E3
Compiler version	: v0.4.16+commit.d7661dd9
Total supply	: 825,578,000
Token ticker	: VOISE
Decimals	: 8
Token holders	: 3,826
Transactions count	: 25,766
Contract deployer address	: 0xe009C117F0745EDC4C2bf8812dF259a43A69512D
Owner address	: 0xe009c117f0745edc4c2bf8812df259a43a69512d

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Social profiles

Twitter Profile	: https://twitter.com/@voisecom
Telegram profile	: https://www.t.me/voiseinc
Coingecko profile	: https://www.coingecko.com/en/coins/voise/
Coinmarketcap profile	: https://coinmarketcap.com/currencies/voisecom/

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Claimed Smart Contract Features

Claimed Feature Detail

Tokenomics:

• Name : VOISE

• Symbol : VOISE

• Decimals :8

• Protocol : ERC20

• Total supply : 825,578,000

• Contract address : 0x83eEA00D838f92dEC4D1475697B9f4D3537b56E3

Our Observation

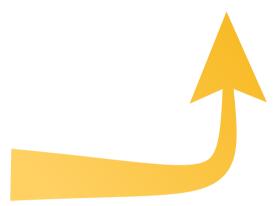
YES, this is valid.

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Audit Summary

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

Insecure Poor 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 issues checking status.

We found 0 critical, 1 high, 0 medium and 2 low and some very low-level issues.

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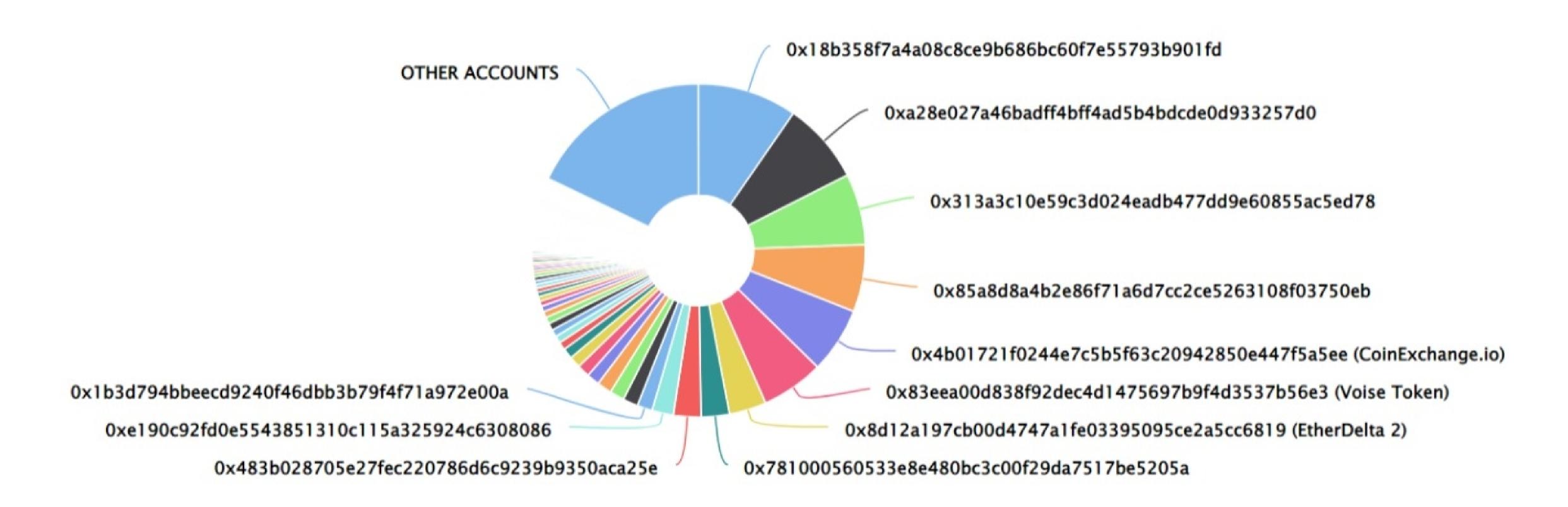
VOISE Token Distribution

The top 100 holders collectively own 82.09% (677,678,735.86 Tokens) of VOISE

▼ Token Total Supply: 825,578,000.00 Token | Total Token Holders: 3,826

VOISE Top 100 Token Holders

Source: Etherscan.io

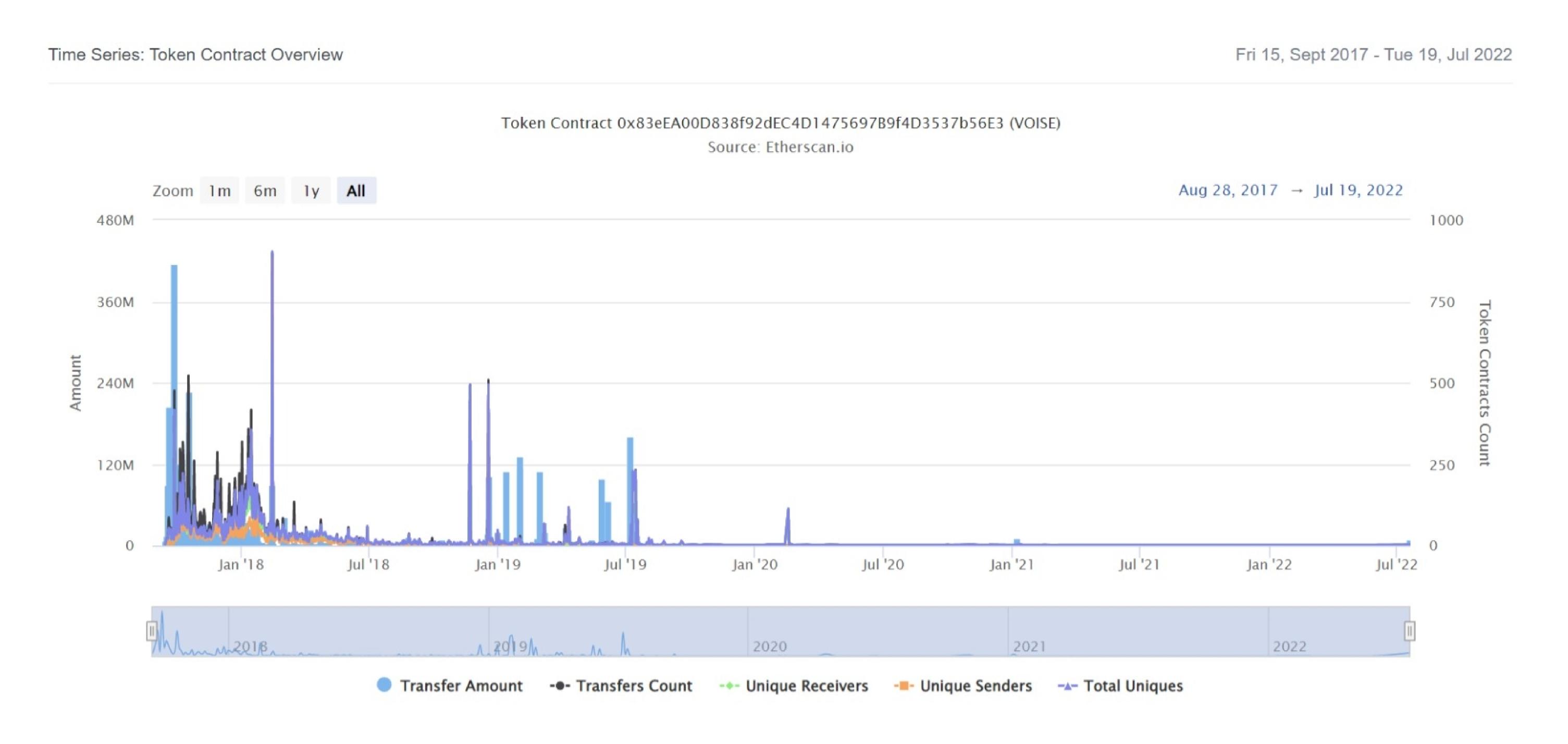


VOISE Top 20 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x18b358f7a4a08c8ce9b686bc60f7e55793b901fd	79,601,000	9.6419%
2	0xa28e027a46badff4bff4ad5b4bdcde0d933257d0	65,320,000	7.9120%
3	0x313a3c10e59c3d024eadb477dd9e60855ac5ed78	57,000,000	6.9043%
4	0x85a8d8a4b2e86f71a6d7cc2ce5263108f03750eb	53,791,722.72227	6.5156%
5	CoinExchange.io	52,585,159.84749954	6.3695%
6	□ Voise Token □	50,064,735.63867623	6.0642%
7	EtherDelta 2	29,917,069.71298519	3.6238%
8	0x781000560533e8e480bc3c00f29da7517be5205a	22,500,000	2.7254%
9	0x483b028705e27fec220786d6c9239b9350aca25e	22,074,140	2.6738%
10	0xe190c92fd0e5543851310c115a325924c6308086	17,233,000	2.0874%
11	0x1b3d794bbeecd9240f46dbb3b79f4f71a972e00a	12,307,086.94272806	1.4907%
12	HitBTC 3	11,960,831.15978719	1.4488%
13	0xdaf5a82241261549a7cc9ada1c39650757baf0c6	11,789,000	1.4280%
14	0xf680ccb9720efa599fab8b509b7b4ec45307f5d7	11,734,000	1.4213%
15	0x1c634a00768db0a2e1b45ae4ec926ad4bbcebd95	10,346,000	1.2532%
16	①xa81011ae274ef6debd3bdab634102c7b6c2c452d	9,993,681.24403191	1.2105%
17	0x8e21bec8dfcec3956a640f11cb784fd2936c4dc5	9,323,000	1.1293%
18	0x636ac4e97a9f839dfa8c5abbe37f84e7690b995e	8,287,000	1.0038%
19	0x5823f7e3309aa6a86b42a416c109d7cc4149aa85	6,400,000	0.7752%
20	0x0878974b924460ef7106fc9040f18276b1596934	5,833,000	0.7065%

VOISE Token Distribution

VOISE Contract Overview



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Contract functions details

```
+ SafeMath
-[Int] safeMul
-[Int] safeSub
-[Int] safeAdd
-[Int] assert

+VOISE (SafeMath)
-VOISE
-transfer #
-approve #
-transferFrom #

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

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Issues Checking Status

No.	. Title	
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.	High issue
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.	B. Malicious Event log.	
14.	14. Scoping and Declarations.	
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
20.	Too old version	Low issue

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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

One high severity issues found.

1. Timestamp dependence.

Description

The contract have used now(block.timestamp) many times in some functions such as transfer, transferFrom as the miners here can manipulate the smart contract in order to attack the contract.

Recommendation

We advise you to not use block.timestamp in your contract and apply the 15-second rule which says that If the scale of your time-dependent event can vary by 15 seconds and maintain integrity, it is safe to use a block.timestamp

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

Tow low severity issue found.

1. Too old compiler version.

Description

Contract has been deployed using too old compiler version.

Recommendation

It is advisable that the compiler version of solidity should be among the new compiler versions.

2. 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.

Security Issues

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 ^0.4.6 the contract should contain the following line:

pragma solidity 0.4.16;

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Conclusion

Smart contract contains low and high 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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