



Smart Contract Security Audit Report

WORKIT

July 2022

Security Status



www.hacksafe.io



Audit Details



Audited project

WORKIT



Deployer address

0xD7f3B08c53e74E0b086D6e6A339ed47D1d1a55D8



Client contacts

WORKIT team



Blockchain

Binance Smart chain



Website

<https://wkit.io/>

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 WORKIT to perform an audit of smart contracts:

- <https://bscscan.com/address/0x9934c20b285ecea71b7776a97ecf49556c176673#code>

The purpose of the audit was to achieve the

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

The information in this report should be understood 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.

Contract Details

Token contract details for 13.07.2022

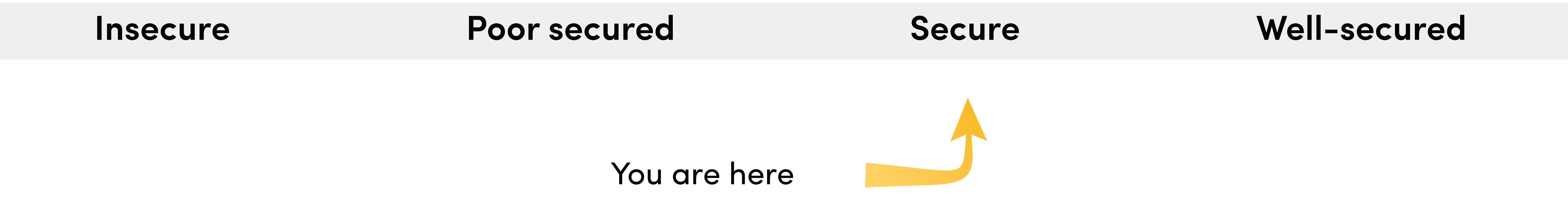
Token Type	: BEP20
Contract name	: ERC20Preset
Contract address	: 0x9934C20B285ecEa71B7776a97eCF49556C176673
Compiler version	: v0.8.0+commit.c7dfd78e
Total supply	: 10,000,000,000
Token Ticker	: WKIT
Decimals	: 18
Token Holders	: 14
Transactions count	: 31
Contract deployer address	: 0xD7f3B08c53e74E0b086D6e6A339ed47D1d1a55D8
Owner address	: No Owner

Social profiles

Coinmarketcap profile : <https://coinmarketcap.com/currencies/workit/>

Audit Summary

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



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, 0 high, 0 medium and 1 low and some very low-level issues. These issues are not critical ones.

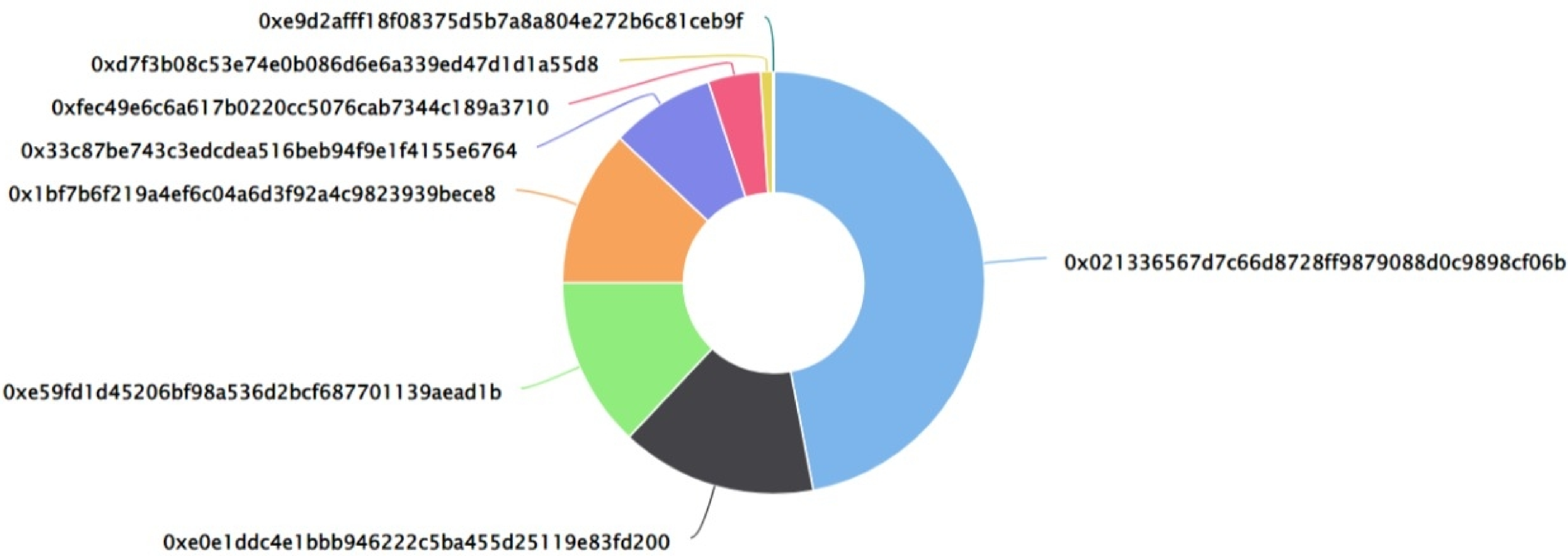
WORKIT Token Distribution

 The top 100 holders collectively own 100.00% (10,000,000,000.00 Tokens) of WORKIT

 Token Total Supply: 10,000,000,000.00 Token | Total Token Holders: 14

WORKIT Top 100 Token Holders

Source: BscScan.com



(A total of 10,000,000,000.00 tokens held by the top 100 accounts from the total supply of 10,000,000,000.00 token)

WORKIT Top 14 Token Holders

(A total of 10,000,000,000.00 tokens held by the top 100 accounts from the total supply of 10,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x021336567d7c66d8728ff9879088d0c9898cf06b	4,700,000,000	47.0000%
2	0xe0e1ddc4e1bbb946222c5ba455d25119e83fd200	1,500,000,000	15.0000%
3	0xe59fd1d45206bf98a536d2bcf687701139aead1b	1,300,000,000	13.0000%
4	0x1bf7b6f219a4ef6c04a6d3f92a4c9823939bece8	1,200,000,000	12.0000%
5	0x33c87be743c3edcdea516beb94f9e1f4155e6764	800,000,000	8.0000%
6	0xfec49e6c6a617b0220cc5076cab7344c189a3710	400,000,000	4.0000%
7	0xd7f3b08c53e74e0b086d6e6a339ed47d1d1a55d8	98,999,775	0.9900%
8	0xe9d2afff18f08375d5b7a8a804e272b6c81ceb9f	500,185	0.0050%
9	0xbe4db4ed7150b166b44a004b7f13ba1411d2e742	250,000	0.0025%
10	0x98c9dd41a403b096f68d27e44b5816d7e017036c	250,000	0.0025%
11	0x9b9bd6ece97cdf7772999e821edccd519d0d58c	15	0.0000%
12	0xe2e69c5e37ea6aa659891c451839a8d240f80cd7	10	0.0000%
13	0x9d51722fee0eb07f8ca822ce18457668548a5db1	9.9	0.0000%
14	0xb772ef1768e6613e83cb1571f78f9a478dc2b342	5.1	0.0000%

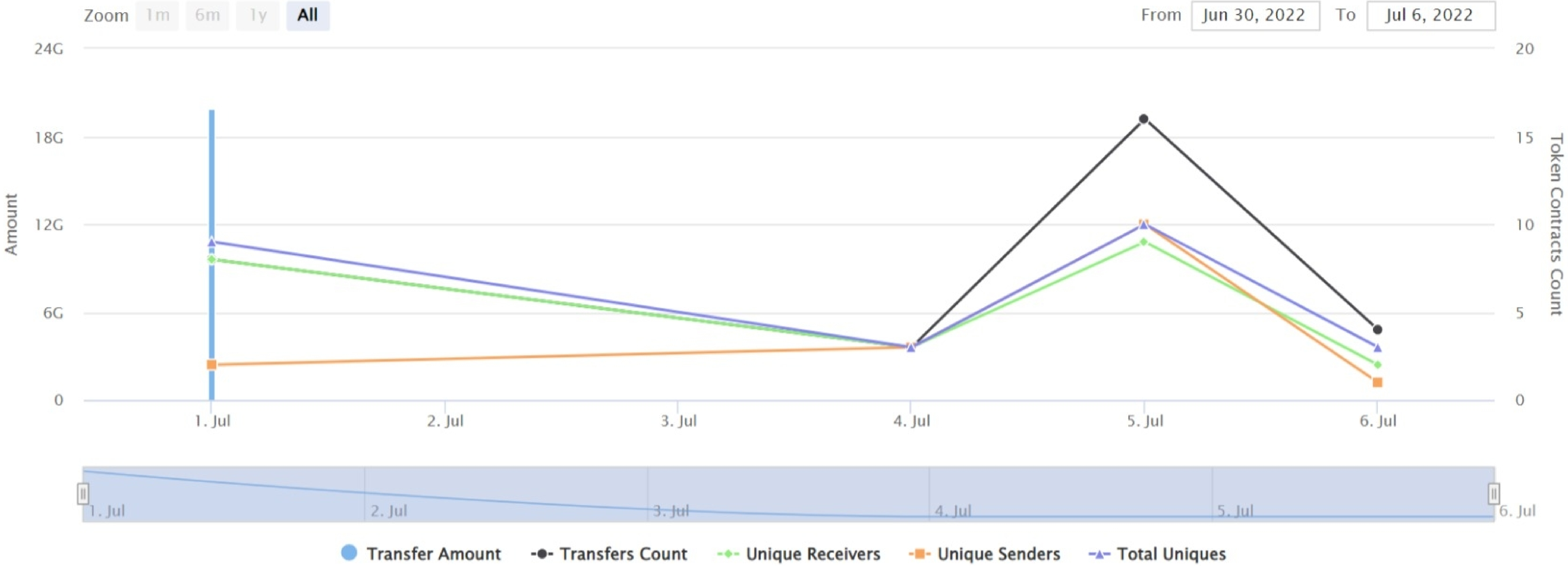
WORKIT Token Distribution

WORKIT Contract Overview

Time Series: Token Contract Overview

Fri 1, Jul 2022 - Wed 6, Jul 2022

Token Contract 0x9934c20b285ecea71b7776a97ecf49556c176673 (WORKIT)
Source: BscScan.com



Contract functions details

ERC20Preset.sol

+ ERC20Preset (Context, ERC20)

-< constructor >

Context.sol

+ Context

-[Int] _msgSender

-[Int] _msgData

ERC20.sol

+ ERC20 (Context, IERC20, IERC20Metadata)

-<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] _spendAllowance #

-[Int] _beforeTokenTransfer #

-[Int] _afterTokenTransfer #

IERC20.sol

+ [Int] IERC20

-[Ext] totalSupply

-[Ext] balanceOf

-[Ext] transfer

-[Ext] allowance

-[Ext] approve

-[Ext] transferFrom

Contract functions details

IERC20Metadata.sol

+[Int] IERC20Metadata (IERC20)

-[Ext] name

-[Ext] symbol

-[Ext] decimals

(\$) = 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
20.	Too old version	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 `^0.8.0` the contract should contain the following line:

```
pragma solidity 0.8.0;
```

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.