

Smart Contract Security Audit Report

BYTNODE

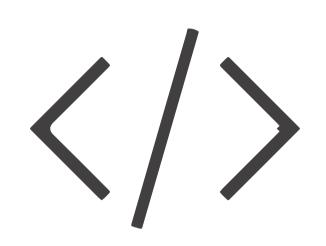
December 2022

Audit Details

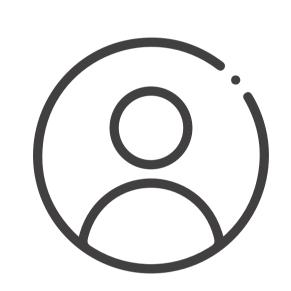


Audited project

BYTNODE

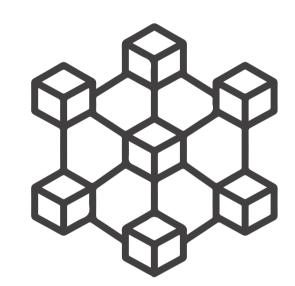


Deployer address0xBC4CD5c4C2827F2e37c4859dFA4B8919AD0F3c98



Client contacts

BYTNODE Team



Blockchain

Ethereum



Website

https://bytnode.com/

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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 BYTNODE to perform an audit of smart contracts:

• https://etherscan.io/address/0xC612796023A967D6a6F2203C4Bb71E9E58e340Ad#code

The purpose of the audit was to achieve the following:

- Ensure 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 29.12.2022

Owner address

: no owner

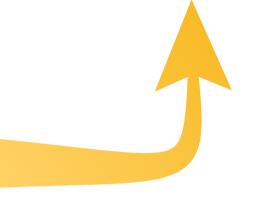
Token Type	: DEFI
Contract name	: BytnodeProject
Contract address	: 0xC612796023A967D6a6F2203C4Bb71E9E58e340Ad
Total supply	: 330,000,000
Token ticker	: BYTE
Decimals	: 18
Token Holders	: 14
Transactions count	: 80
Compiler version	: v0.8.2+commit.661d1103
Contract deployer address	: 0xBC4CD5c4C2827F2e37c4859dFA4B8919AD0F3c98

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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.

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 issues checking status.

We found 0 critical, 0 high, 0 medium and 0 low.

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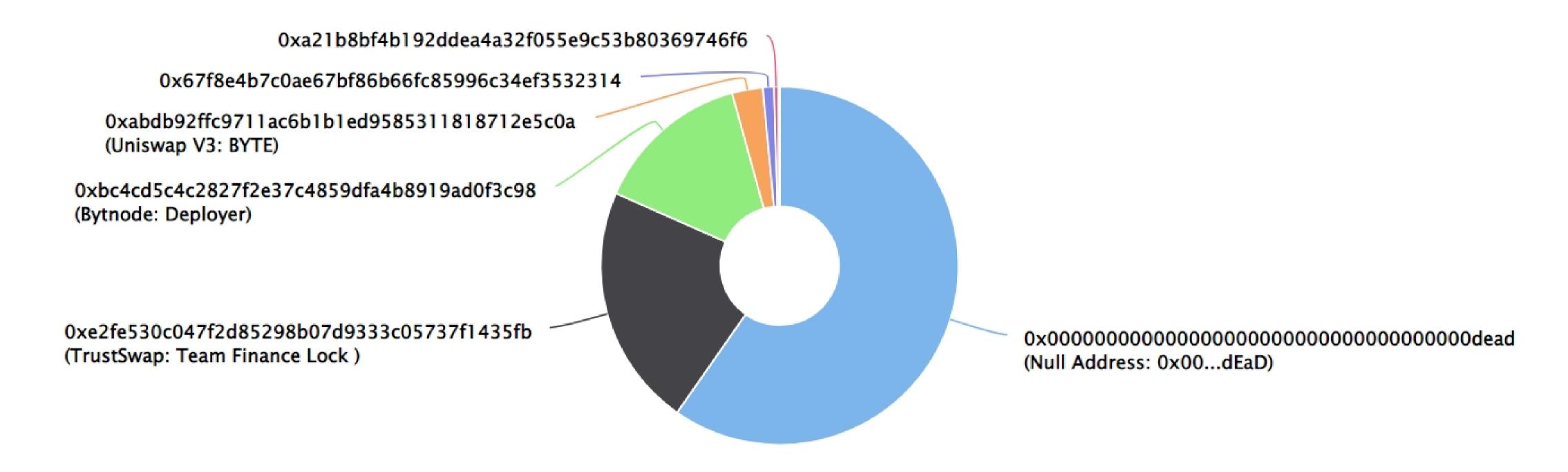
BYTNODE Token Distribution

The top 100 holders collectively own 100.00% (330,000,000.00 Tokens) of BYTNODE

▼ Token Total Supply: 330,000,000.00 Token | Total Token Holders: 14

BYTNODE Top 100 Token Holders

Source: Etherscan.io



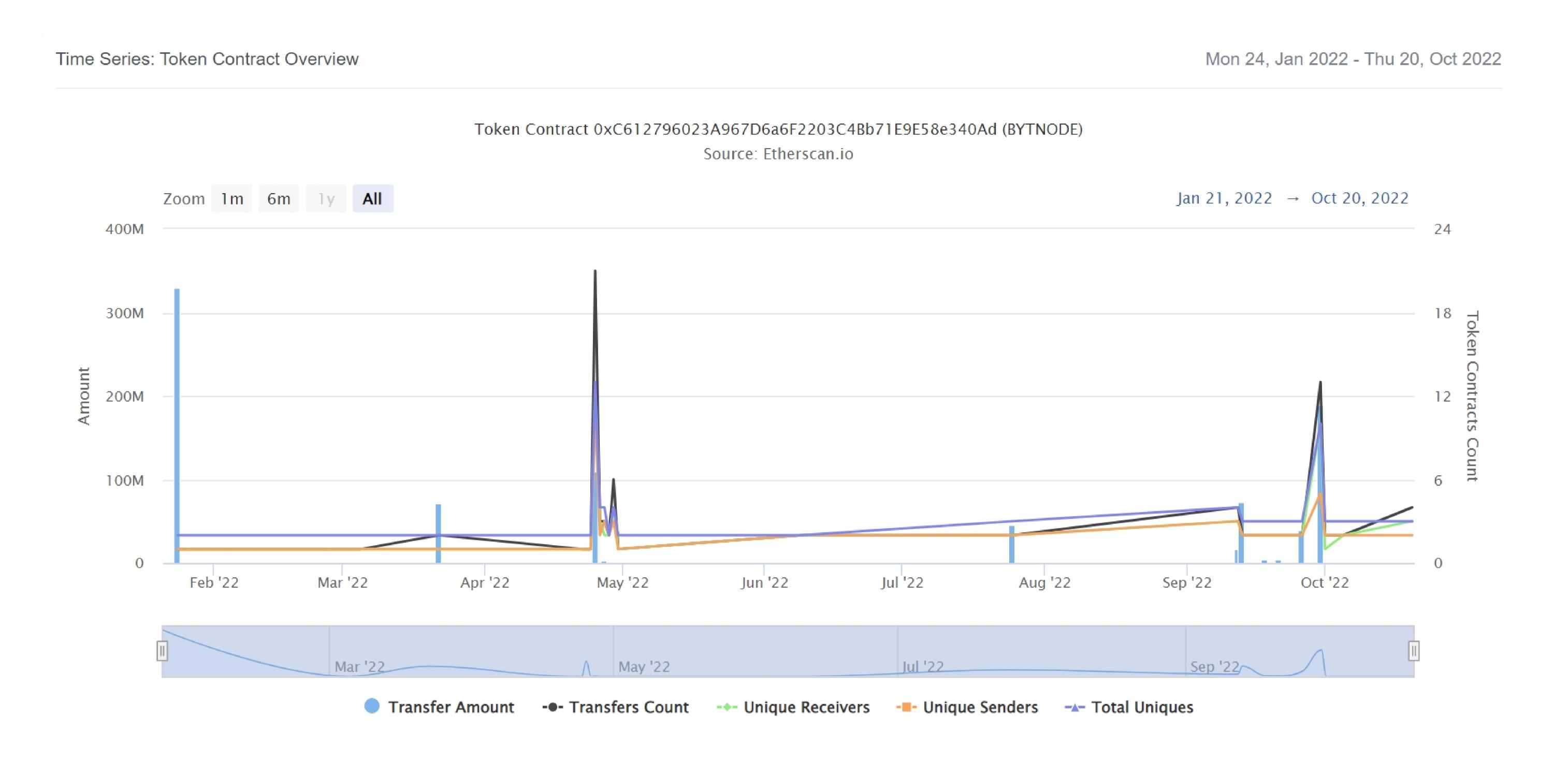
BYTNODE Top 14 Token Holders

(A total of 330,000,000.00 tokens held by the top 100 accounts from the total supply of 330,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x00dEaD	197,026,791.906124540318774833	59.7051%
2	TrustSwap: Team Finance Lock	72,352,500	21.9250%
3	Bytnode: Deployer	46,541,859.587230621158349491	14.1036%
4	Uniswap V3: BYTE	9,111,339.71962933263023646	2.7610%
5	0x67f8e4b7c0ae67bf86b66fc85996c34ef3532314	3,296,700	0.9990%
6	1 0xa21b8bf4b192ddea4a32f055e9c53b80369746f6	1,314,929	0.3985%
7	0x2046c4e4c910ee59c38303c91c5ec1d8e228ea8a	247,500	0.0750%
8	0x0127c0d7b492e02105877be4fc64e14c3773cdd8	107,742	0.0326%
9	(a) 0xbc958a3ddff00a6e50217f0be1f2019a07e5e7f8	527.535838453112349383	0.0002%
10	0xa47c6ed60660007f12c4cbb8eeb54006a1684e32	100.00000000000028562	0.0000%
11	(a) 0x1c2e155356560e77369a81106a31d8ed9dac92c0	10	0.0000%
12	0xd72207319495168441ebaa36f39454fe3a84103a	0.251167052779889483	0.0000%
13	■ MEV Bot: 0x00800	0.00001	0.0000%
14	Uniswap V2: BYTE 2	0.0000000000371788	0.0000%

BYTNODE Token Distribution

BYTNODE Contract Overview



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Contract functions details

```
+Context
    -[Int] _msgSender
    -[Int] _msgData
+[Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer #
    -[Ext] allowance
    -[Ext] approve #
    -[Ext] transferFrom #
+[Int] IERC20Metadata (IERC20)
    -[Ext] name
    -[Ext] symbol
    -[Ext] decimals
+ERC20 (Context, IERC20, IERC20Metadata)
    -<constructor>
    -[Pub] name
    -[Pub] symbol
    -[Pub] decimals
    -[Pub] totalSupply
    -[Pub] balanceOf
    -[Pub] transfer #
    -[Pub] allowance
    -[Pub] transferFrom #
    -[Pub] increaseAllowance #
    -[Pub] decreaseAllowance #
    -[Int] _transfer #
    -[Int] _mint #
    -[Int] _burn #
    -[Int] _approve #
    -[Int] _beforeTokenTransfer #
    -[Int] _afterTokenTransfer#
+BytnodeProject (ERC20)
    -<constructor>
($) = payable function
# = non-constant function
```

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Issues Checking Status

No.	Title	Status
1.	Compiler error	Passed
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

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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 IssuesNo high severity issue found.
- Medium Severity Issues
 No medium severity issue found.
- Low Severity IssuesNo low severity issue found.

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Conclusion

Smart contract contains no 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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