

Smart Contract Security Audit Report

Smartshare token

February 2023

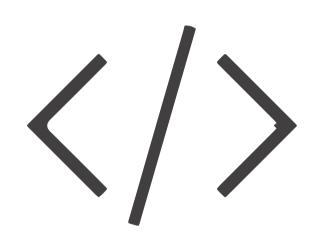


Audit Details



Audited project

Smartshare token



Deployer address0xe086977e87a6d6daa614f5cb4099335a6f556845



Client contacts

Smartshare token Team



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 Smartshare token to perform an audit of smart contracts:

• https://etherscan.io/token/0x624d520bab2e4ad83935fa503fb130614374e850#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 08.02.2023

Token Type : DEFI

Contract name : SmartshareStandardToken

Contract address : 0x624d520BAB2E4aD83935Fa503fB130614374E850

Total supply : 10,000,000,000

Token ticker : SSP

Decimals : 4

Token Holders : 36,779

Transactions count : 111,944

Compiler version : v0.4.23+commit.124ca40d

Contract deployer

address

: 0xe086977e87a6d6daa614f5cb4099335a6f556845

Owner address : No owner

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Audit Summary

According to the standard audit assessment, Customer's solidity smart contracts are "Secure". This token contract does not contain owner control as ownership has been renounced, which do make it fully decentralized.

Insecure Poor secured Secure Well-secured

You are here

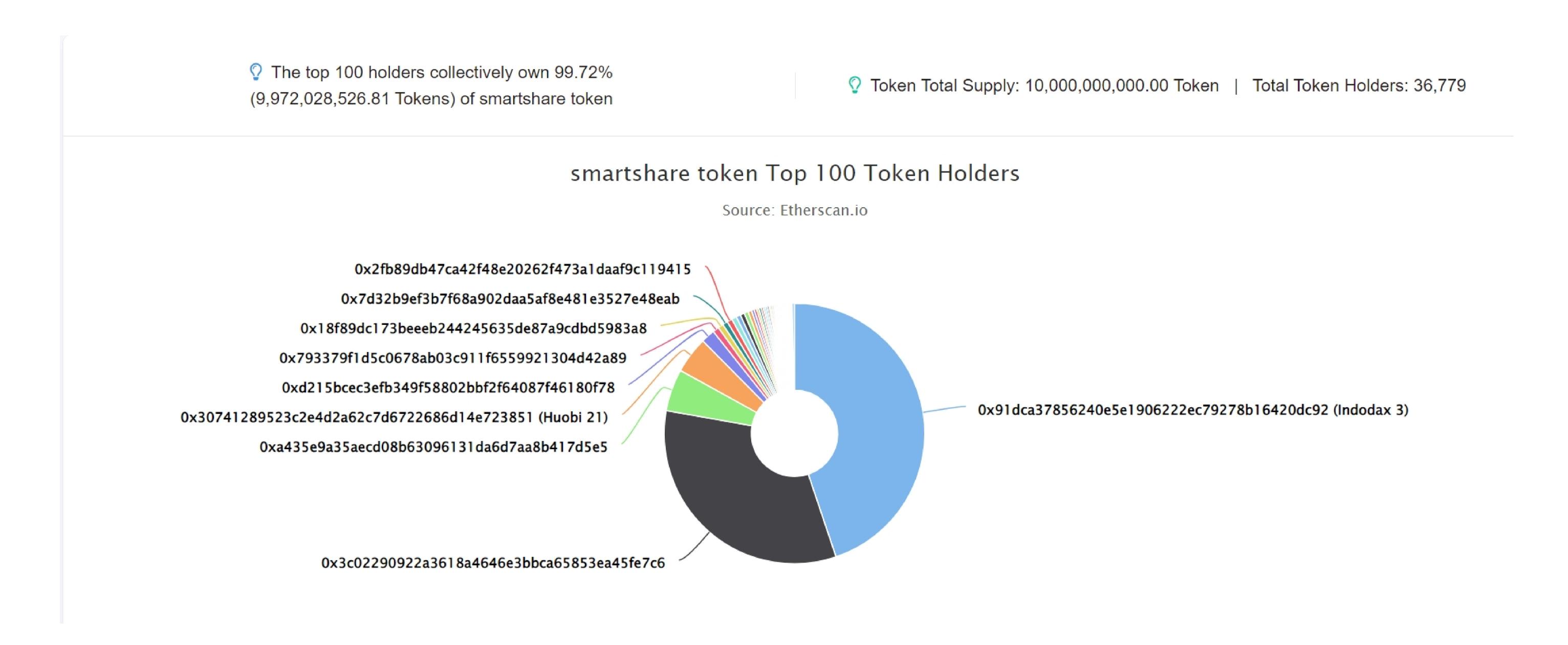
We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 1 low.

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SMARTSHARE TOKEN Token Distribution

SMARTSHARE TOKEN transfer overview

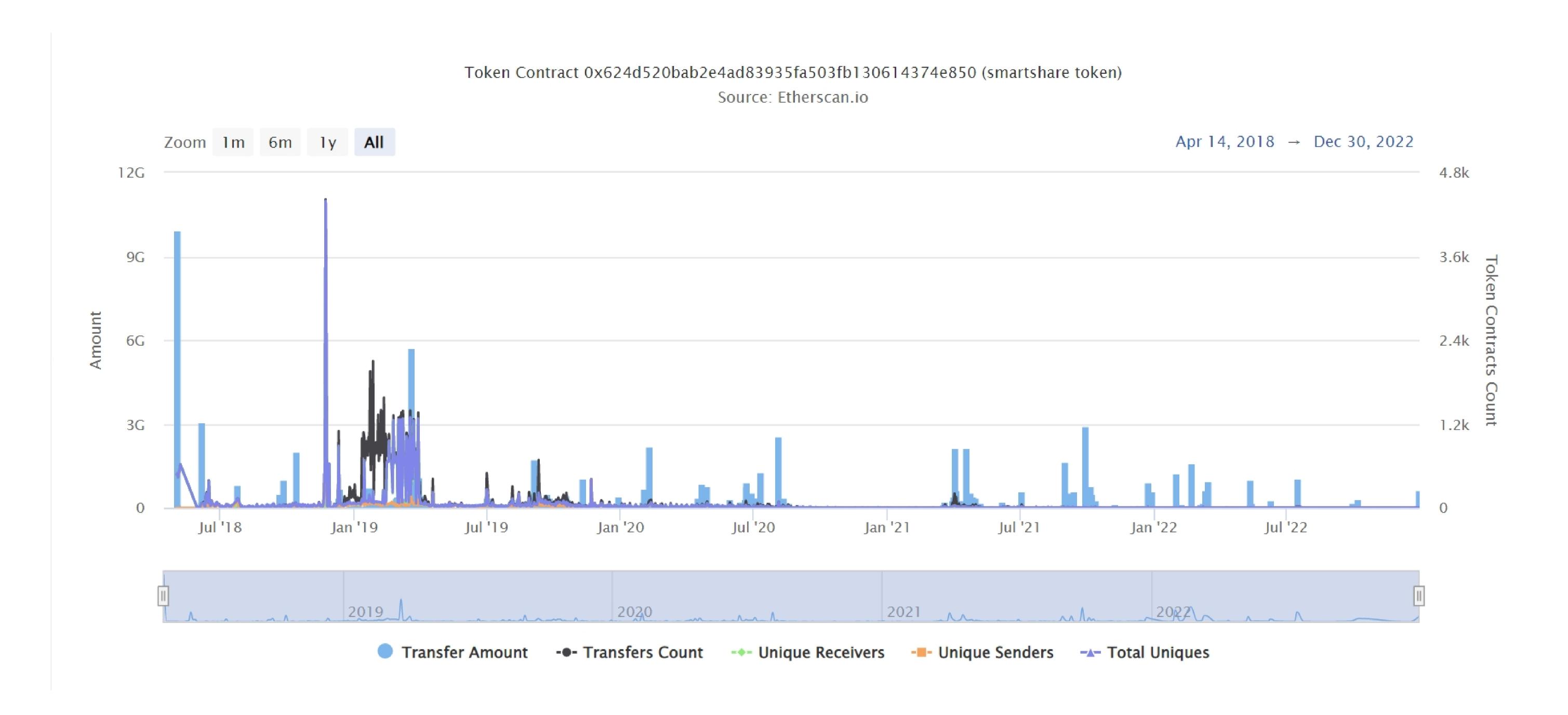


SMARTSHARE TOKEN Top 20Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Indodax 3	4,484,251,973	44.8425%
2	0x3c02290922a3618a4646e3bbca65853ea45fe7c6	3,296,998,284.2969	32.9700%
3	0xa435e9a35aecd08b63096131da6d7aa8b417d5e5	521,660,100	5.2166%
4	Huobi 21	454,384,712.8141	4.5438%
5	0xd215bcec3efb349f58802bbf2f64087f46180f78	172,845,402.0588	1.7285%
6	0x793379f1d5c0678ab03c911f6559921304d42a89	77,517,152.5289	0.7752%
7	0x18f89dc173beeeb244245635de87a9cdbd5983a8	66,373,202.7673	0.6637%
8	0x7d32b9ef3b7f68a902daa5af8e481e3527e48eab	65,000,099.804	0.6500%
9	0x2fb89db47ca42f48e20262f473a1daaf9c119415	63,302,338.097	0.6330%
10	Huobi 4	60,963,816.0352	0.6096%
11	0xb872ab54f4292b82a5ec2bc5b308e34baf7cc884	55,437,123.3305	0.5544%
12	0xdb2fc5d15514f33271b140563e165ca72c2b590b	51,561,986.1917	0.5156%
13	0x83f9efe0b5e1dfc25d47dfdfd75d28210c725c5c	50,555,972.6298	0.5056%
14	0x5f7ae6a1e90a04de1504f8c32af0763886503d3c	43,635,364.324	0.4364%
15	0x850d655426cc4e939af375aeb10976cdd0918209	33,939,565.4847	0.3394%
16	0x8caddf83fb92443d70158285b14ef344756aeefb	30,994,870.7689	0.3099%
17	0x2d4416495ce92bfebee19990961725a2855045ff	28,559,209.3594	0.2856%
18	0xdd53ce6cf5d05d404916050181fe3f00c132f029	28,542,223.3301	0.2854%

SMARTSHARE TOKEN Token Distribution

SMARTSHARE TOKEN Contract overview



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Contract functions details

```
+ERC20
   -balanceOf
   -transfer
    -transferFrom
   -approve
    -allowance
+StandardToken (ERC20)
    -transfer#
    -transferFrom #
    -balanceOf
   -approve #
    -allowance
+SmartshareStandardToken (StandardToken)
    -SmartshareStandardToken#
    -approveAndCall #
($) = payable function
# = non-constant function
```

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Issues Checking Status

No.	Title	Status
1.	Compiler error	Passed
2.	Missing Input Validation	
3.	Race conditions and Reentrancy. Cross-function race conditions.	
4.	Possible delays in data delivery	
5.	Oracle calls.	
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow	
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.	
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 Pass	
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

No high severity issue found.

Medium Severity Issues

No medium severity issue found.

Low Severity Issues

One low severity issue found.

1. Old compiler version

Description

Contract has been deployed using too old solidity version.

Recommendation

It is advisable to deploy contract using any of the latest version of solidity.

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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.

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