

Smart Contract Security Audit Report

ALICE

January 2023

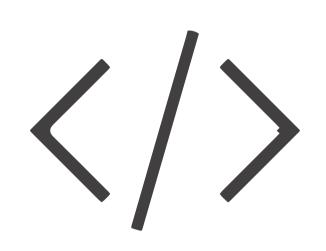


Audit Details



Audited project

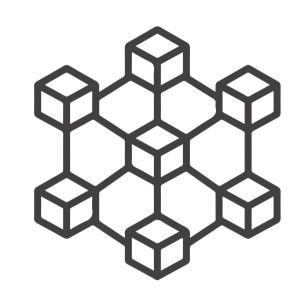
ALICE



Deployer address0x7d61a56899dd55e5d16c1bab38f46f42b4d33887



Client contacts



Blockchain

Binance smart chain



Website

https://www.myneighboralice.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 ALICE to perform an audit of smart contracts:

• https://bscscan.com/token/0xac51066d7bec65dc4589368da368b212745d63e8#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

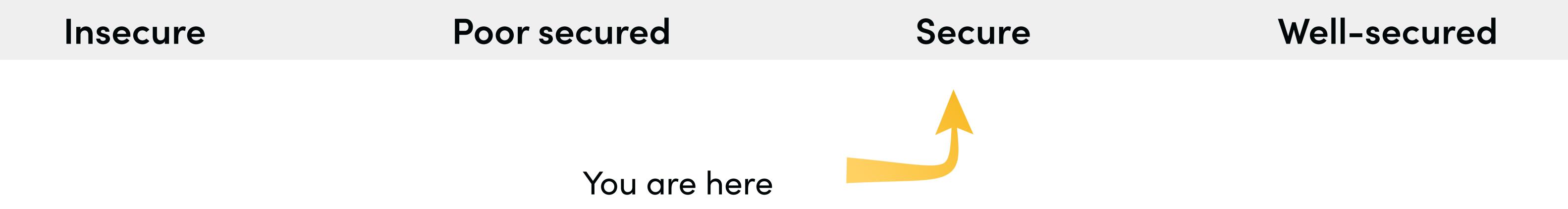
Token contract details for 20.01.2023

: GAME Token Type Contract name : BEP20Token Contract address : 0xAC51066d7bEC65Dc4589368da368b212745d63E8 Total supply : 8,000,000 Token ticker : ALICE Decimals : 6 Token Holders : 54,377 Transactions count : 1,206,017 Compiler version : v0.5.17+commit.d19bba13 Contract deployer : 0x7d61a56899dd55e5d16c1bab38f46f42b4d33887 address Owner address : 0x917fb0b3f934241eef24caa1191eac68d4aa775a

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Audit Summary

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

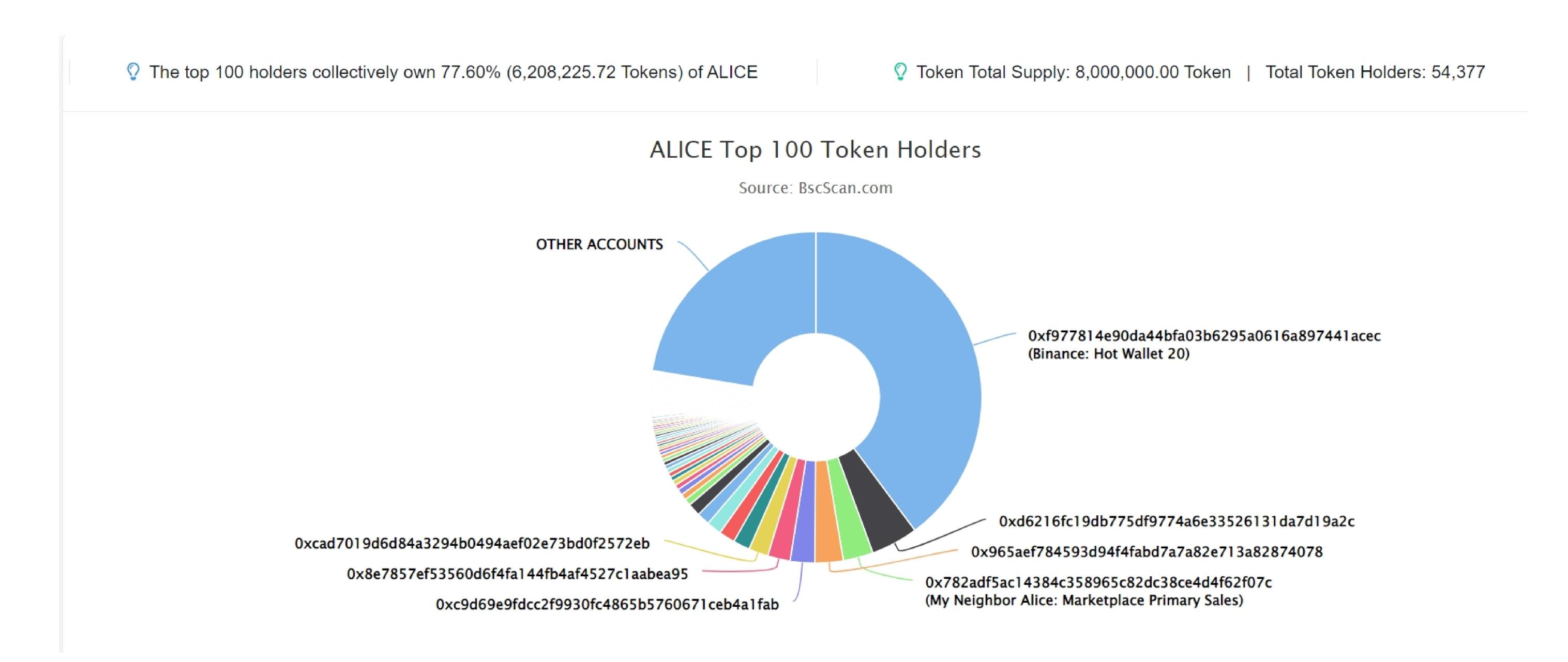


We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

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

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ALICE Token Distribution



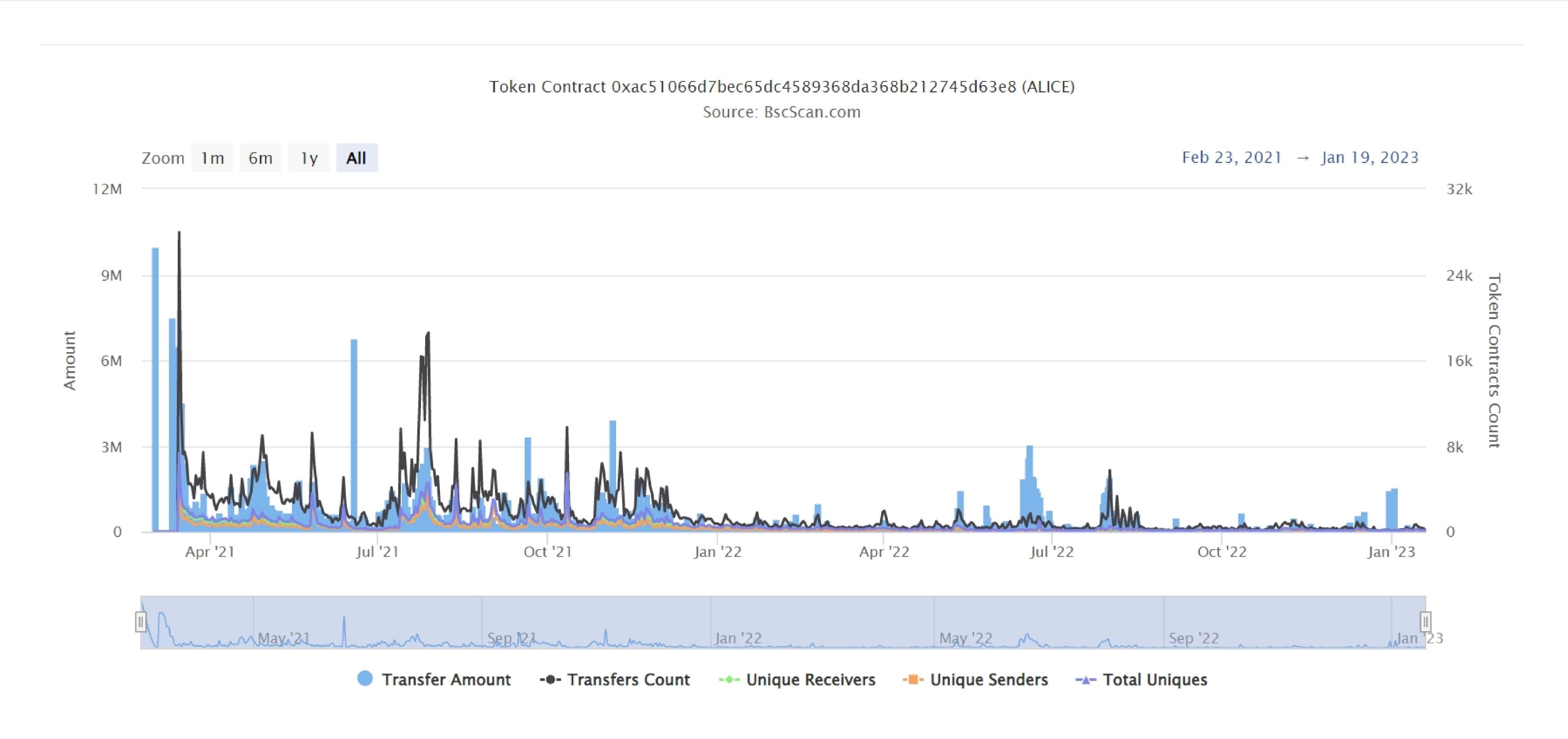
ALICE Token Top 20 Token Holders

(A total of 6,208,225.72 tokens held by the top 100 accounts from the total supply of 8,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Binance: Hot Wallet 20	3,187,054.015	39.8382%
2	0xd6216fc19db775df9774a6e33526131da7d19a2c	366,476	4.5810%
3	My Neighbor Alice: Marketplace Primary Sales	233,622	2.9203%
4	■ 0x965aef784593d94f4fabd7a7a82e713a82874078	221,782.969497	2.7723%
5	0xc9d69e9fdcc2f9930fc4865b5760671ceb4a1fab	191,000	2.3875%
6	0x8e7857ef53560d6f4fa144fb4af4527c1aabea95	176,327.8	2.2041%
7	(a) 0xcad7019d6d84a3294b0494aef02e73bd0f2572eb	152,841.888055	1.9105%
8	0x7a039870a6579a07e14c7a39cd004277f082366e	130,327.44267	1.6291%
9	Binance: Hot Wallet 6	125,216.187103	1.5652%
10	(a) 0x917fb0b3f934241eef24caa1191eac68d4aa775a	117,260	1.4658%
11	0x64bbde279bfda8248835e11b2ed8e803a4a02315	99,999.92	1.2500%
12	0x7b7b957c284c2c227c980d6e2f804311947b84d0	99,779.908982	1.2472%
13	Hotbit 2	52,218.912113	0.6527%
14	0x34ea4138580435b5a521e460035edb19df1938c1	48,697	0.6087%
15	■ 0xf2285d3a9f14ba343fa968d29577cd6c61c0a21f	46,450.014839	0.5806%
16	0x6b328bd5e24d10c35b7732033e6412bafa0981c7	39,147.719156	0.4893%
17	My Neighbor Alice: Marketplace Auction	38,337.5	0.4792%
18	0xf37f9bb699e980923e4b8af90a55bc3f141d8227	34,887.664508	0.4361%
19	Mexc.com 3	33,698.396542	0.4212%
20	0xc1e38abafc56d41697c36a409796253c8b4b23b7	33,258.832108	0.4157%

ALICE Token Distribution

ALICE Contract Overview



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Contract functions details

```
+[Int] IBEP20
    -[Ext] totalSupply
    -[Ext] decimals
    -[Ext] symbol
    -[Ext] name
    -[Ext] getOwner
    -[Ext] balanceOf
    -[Ext] transfer
    -[Ext] allowance
    -[Ext] approve
    -[Ext] transferFrom
+Context
    -[Int] <constructor>
    -[Int] _msgSender
    -[Int] _msgData
+[Lib] SafeMath
    -[Int] add
    -[Int] sub
    -[Int] sub
    -[Int] mul
    -[Int] div
    -[Int] div
    -[Int] mod
    -[Int] mod
+Ownable (Context)
    -[Int] <constructor> #
    -[Pub] owner
    -[Pub] renounceOwnership #
     -modifiers: onlyOwner
    -[Pub] transferOwnership #
      -modifiers: onlyOwner
    -[Int] _transferOwnership #
+BEP20Token (Context, IBEP20, Ownable)
    -[Pub] <constructor> #
    -[Ext] getOwner
    -[Ext] decimals
```

Contract functions details

```
-[Ext] symbol
    -[Ext] name
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer #
    -[Ext] allowance
    -[Ext] approve #
    -[Ext] transferFrom #
    -[Pub] increaseAllowance #
    -[Pub] decreaseAllowance #
    -[Pub] mint #
     -modifiers: onlyOwner
    -[Int] _transfer #
    -[Int] _mint #
    -[Int] _burn #
    -[Int] _approve #
    -[Int] _burnFrom
($) = 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	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 IssuesNo high severity issue found.
- Medium Severity Issues
 No medium severity issue found.
- Low Severity IssuesOne 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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Centralization

Owner privileges:

- ALICE Contract:
 - Owner can mint tokens.
 - Owner can transfer/renounce ownership.

This smart contract has some functions which can be executed by the admin (Owner) only. If the admin wallet private key would be compromised, then it would create trouble, as smart contract ownership has not been renounced.

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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

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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