HackSafe

Smart Contract Security Audit Report

Shina Token

April **2022**

Security Status

★ ★ ★ ★ ★

www.hacksafe.io

Audit Details

Audited project
Shina Token

Deployer address
0x0129829dBE7a41bBED9626DF482A2fc38e21584A

Client contacts
Shina Token team

Blockchain
Ethereum

Website
https://shinatoken.com/

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.

Background

HeckSafe was commissioned by Shina Token to perform an audit of smart contracts:

- https://etherscan.io/address/0x243cacb4d5ff6814ad668c3e225246efa886ad5a#code

Contract Details

Token contract details for 25.04.2022

Contract name	: TokenMintERC20Token
Contract address	: 0x243cACb4D5fF6814AD668C3e225246efA886AD5a
Total supply	:12 trillion
Token Ticker	: SHI
Decimals	: 18
Token Holders	: 2,172
Transactions count	: 21,151
Contract deployer address	: 0x0129829dBE7a41bBED9626DF482A2fc38e21584A

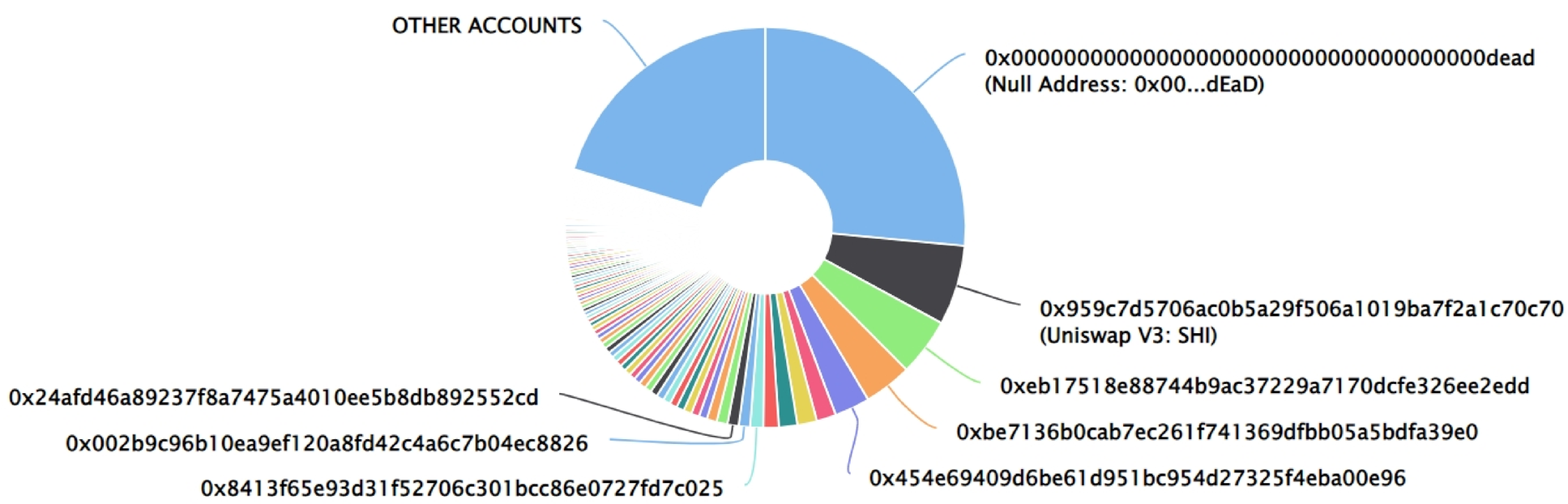
Shina Inu Token Distribution

The top 100 holders collectively own 79.70% (15,940,839,854,243.00 Tokens) of Shina Inu

Token Total Supply: 20,000,000,000,000.00 Token | Total Token Holders: 2,171

Shina Inu Top 100 Token Holders

Source: Etherscan.io



Shina Inu Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x00...dEaD	5,295,053,538,804.544612599320357066	26.4753%
2	Uniswap V3: SHI	1,290,676,246,777.53712103043453036	6.4534%
3	0xeb17518e88744b9ac37229a7170dcfe326ee2edd	927,489,748,688.573014141326063367	4.6374%
4	0xbe7136b0cab7ec261f741369dfbb05a5bdfa39e0	775,804,735,859.222919561526549779	3.8790%
5	0x454e69409d6be61d951bc954d27325f4eba00e96	568,589,229,314.215351530501148125	2.8429%
6	0xbb257625458a12374daf2ad0c91d5a215732f206	315,994,053,563.758975592974527294	1.5800%
7	0xbe88a6510746d8475633fcbb9ce0f05c7222c187	314,278,790,025.788694419863948299	1.5714%
8	0x985b6162c4863ff6579fe453c86e9d24aa977e26	297,745,486,603.440782185861596464	1.4887%
9	0xc044cb489eb9b4e7208bdb6e218ac6085467a1ba	246,891,771,790.840705058554705372	1.2345%
10	0x8413f65e93d31f52706c301bcc86e0727fd7c025	212,942,285,444.54854786244896245	1.0647%

Contract functions details

+ [Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer #
    -[Ext] allowance
    -[Ext] approve #
    -[Ext] transferFrom #

+ [Lib] SafeMath
    - [Int] add
    - [Int] sub
    - [Int] mul
    - [Int] div
    - [Int] mod

+ ERC20 (IERC20)
    -[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] _burnFrom

+ TokenMintERC20Token
    -[Pub] <constructor> $
    -[Pub] burn #
    -[Pub] name
    -[Pub] symbol
    -[Pub] 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

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 ^0.5.0 the contract should contain the following line:

  pragma solidity 0.5.0;

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.