



# Smart Contract Security Audit Report

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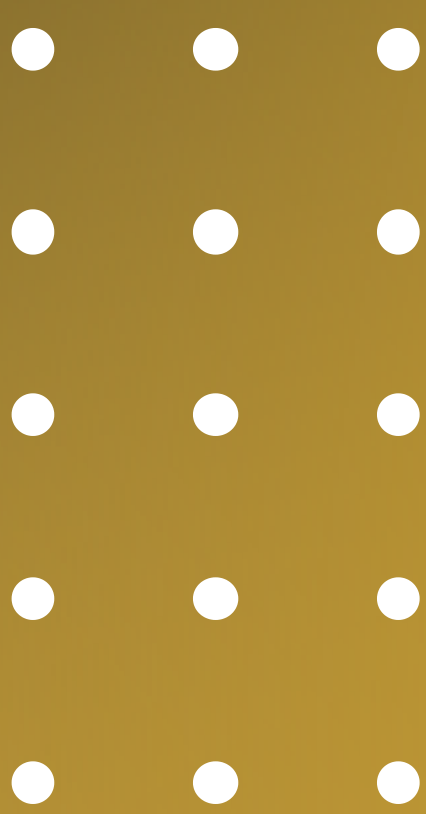
## WORLD CUP INU

March 2023

Security Status



[www.hacksafe.io](https://www.hacksafe.io)



# Audit Details



## Audited project

WORLD CUP INU



## Deployer address

0x6FB8Efee44784af8a0d1fb32811ef417471A5416



## Client contacts

WORLD CUP INU team



## Blockchain

Ethereum



## Website

Not Provided



# 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 WORLD CUP INU to perform an audit of smart contracts:

- <https://etherscan.io/address/0xC5a9BC46A7dbe1c6dE493E84A18f02E70E2c5A32#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 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 02.03.2023

Token Type	: DEFI
Contract name	: WORLD CUP INU
Contract address	: 0xC5a9BC46A7dbe1c6dE493E84A18f02E70E2c5A32
Total supply	: 1,000,000,000
Token ticker	: WCI
Decimals	: 9
Token Holders	: 3,428
Top 100 token holder's dominance	: 94.58 %
Transactions count	: 64,930
Compiler version	: v0.8.7+commit.e28d00a7
Contract deployer address	: 0x6FB8Efee44784af8a0d1fb32811ef417471A5416
Contract owner address	: 0x6FB8Efee44784af8a0d1fb32811ef417471A5416



# Social profiles

Twitter profile	: <a href="https://twitter.com/wcierc20">https://twitter.com/wcierc20</a>
Telegram profile	: <a href="https://t.me/Worldcupinuofficial">https://t.me/Worldcupinuofficial</a>
Coinmarketcap profile	: <a href="https://coinmarketcap.com/currencies/world-cup-inu/">https://coinmarketcap.com/currencies/world-cup-inu/</a>
Coingecko profile	: <a href="https://www.coingecko.com/en/coins/world-cup-inu">https://www.coingecko.com/en/coins/world-cup-inu</a>

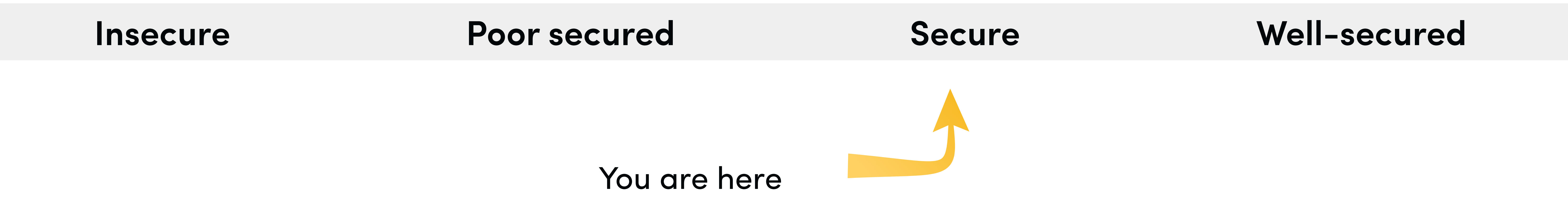
# Claimed Smart Contract Features

Claimed Feature Detail	Our Observation
<p>Tokenomics :</p> <ul style="list-style-type: none"><li>• Name : WORLD CUP INU</li><li>• Symbol : WCI</li><li>• Decimals : 9</li><li>• Protocol : ERC20</li><li>• Total supply : 1,000,000,000</li><li>• Contract address : 0xC5a9BC46A7dbe1c6dE493E84A18f02E70E2c5A32</li></ul>	<p>YES, this is valid.</p>



# 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 as owner does 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, 1 medium and 0 low and some very low-level issues. These issues are not critical ones.

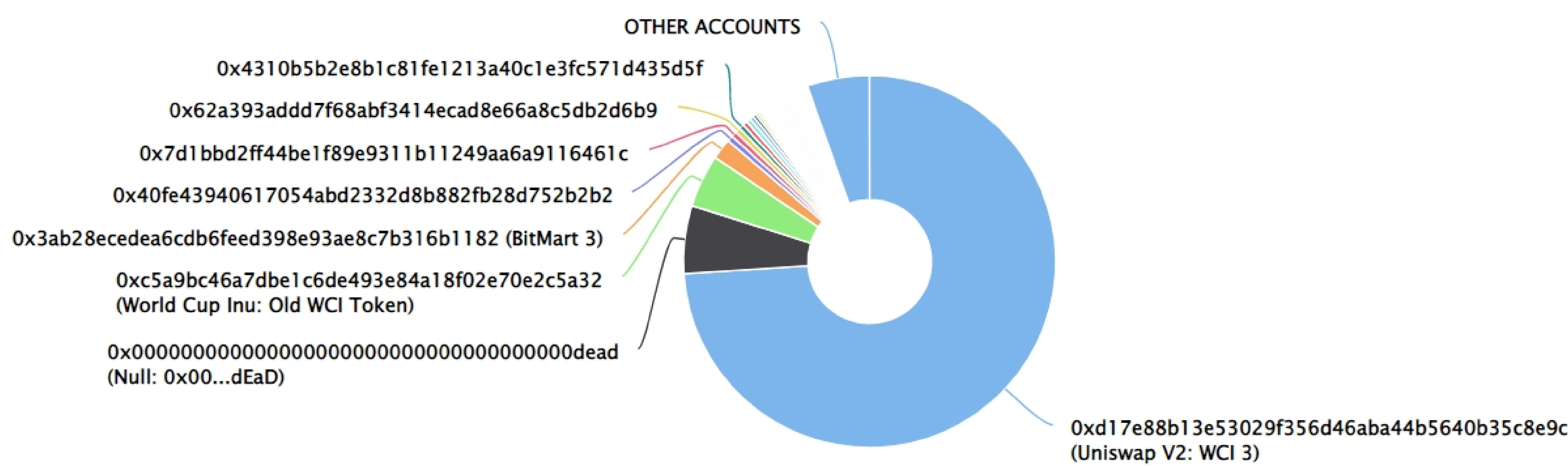
# WORLD CUP INU Token Distribution

 The top 100 holders collectively own 94.58% (945,776,672.43 Tokens) of WORLD CUP INU

 Token Total Supply: 1,000,000,000.00 Token | Total Token Holders: 3,428
























## WORLD CUP INU Top 100 Token Holders

Source: Etherscan.io



## WORLD CUP INU Top 20 Token Holders

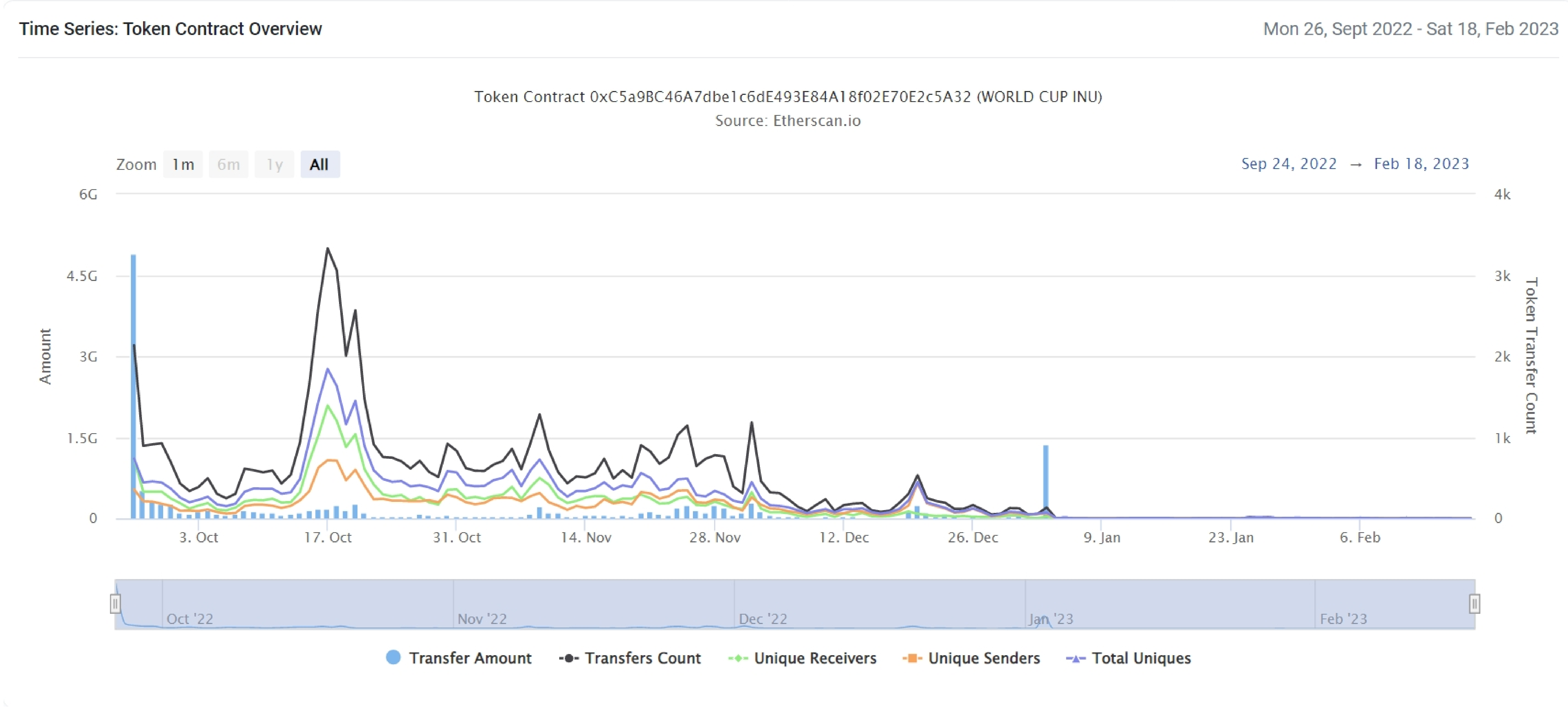
(A total of 945,776,672.43 tokens held by the top 100 accounts from the total supply of 1,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	 Uniswap V2: WCI 3 	739,589,207.996873422	73.9589%
2	<a href="#">Null: 0x00...dEaD</a> 	58,851,632.545438121	5.8852%
3	 World Cup Inu: Old WCI Token 	45,923,622.331614902	4.5924%
4	<a href="#">BitMart 3</a> 	18,262,959.195393478	1.8263%
5	<a href="#">0x40fe43...D752b2b2</a> 	5,000,000	0.5000%
6	<a href="#">0x7D1bBd...9116461C</a> 	4,869,742.32986596	0.4870%
7	<a href="#">0x62a393...5Db2d6B9</a> 	4,550,000	0.4550%
8	 0x4310b5...1D435d5F 	4,189,342.709129853	0.4189%
9	<a href="#">0x7157E1...Ff64cBB3</a> 	4,026,944.086458219	0.4027%
10	<a href="#">0x3e2A19...A4B23246</a> 	3,988,318.939874519	0.3988%
11	<a href="#">0x4E83Ca...485F0077</a> 	3,442,844.850258072	0.3443%
12	<a href="#">0x925CEe...77eBF248</a> 	2,697,350.190090187	0.2697%
13	<a href="#">0x1Db013...EBbcA108</a> 	2,382,537	0.2383%
14	<a href="#">0xF41a5c...dCac602b</a> 	1,994,305.29143133	0.1994%
15	<a href="#">0x24175E...f85B5571</a> 	1,561,020.072322094	0.1561%
16	<a href="#">0x03F942...d89f9B9B</a> 	1,385,722.562952487	0.1386%
17	<a href="#">0xc54619...9F0E167F</a> 	1,234,603.731676593	0.1235%
18	<a href="#">0xb10a00...7EC8ec94</a> 	1,230,560.365367159	0.1231%
19	<a href="#">0x50F70E...65b7698a</a> 	1,204,702.673414028	0.1205%
20	<a href="#">0xB5451A...9CEfe1ab</a> 	1,182,076.5	0.1182%



# WORLD CUP INU Token Distribution

## WORLD CUP INU Token Contract overview



# Contract functions details

## + [Lib] Address

- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Int] \_functionCallWithValue #

## + Context

- [Int] \_msgSender
- [Int] \_msgData

## + [Int] IERC20

- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

## + [Int] IDEXFactory

- [Ext] createPair #

## + [Int] IDEXRouter

- [Ext] createPair #
- [Ext] WETH
- [Ext] addLiquidityETH (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #

## +Ownable (Context)

- [pub] <Constructor> #
- [pub] owner
- [Pub] renounceOwnership #
  - modifiers: onlyOwner
- [Pub] transferOwnership #
  - modifiers: onlyOwner

## +WORLDCUPINU (IERC20, Ownable)

- [pub] <Constructor> #
- [Ext] <Fallback> (\$)
- [Ext] totalSupply



# Contract functions details

- [Ext] decimals
- [Ext] symbol
- [Ext] name
- [Ext] getOwner
- [Ext] maxBuyTxTokens
- [Ext] maxSellTxTokens
- [Ext] maxWalletTokens
- [Pub] balanceOf
- [Ext] allowance
- [Pub] approve #
- [Ext] approveMax #
- [Ext] setTeamMember #
  - modifiers: onlyOwner
- [Ext] airdrop #
  - modifiers: onlyOwner
- [Ext] clearStuckBalance #
  - modifiers: onlyTeam
- [Ext] openTrading #
  - modifiers: onlyTeam
- [Ext] pauseTrading #
  - modifiers: onlyTeam
- [Ext] disablePause #
  - modifiers: onlyTeam
- [Ext] setProtection #
  - modifiers: onlyTeam
- [Ext] disableProtection #
  - modifiers: onlyTeam
- [Ext] protectWallet #
  - modifiers: onlyTeam
- [Ext] transfer #
- [Ext] transferFrom #
- [Int] \_transferFrom #
- [Int] launched
- [Int] launch #
- [Int] \_basicTransfer #
- [Int] checkWalletLimit
- [Int] checkTxLimit #
- [Int] shouldTakeFee
- [Pub] getTotalFee

# Contract functions details

- [Int] takeFee #
- [Int] shouldSwapBack
- [Int] swapBack #
  - modifiers: swapping
- [Ext] addLiquidityPool #
  - modifiers: onlyOwner
- [Ext] setRateLimit #
  - modifiers: onlyOwner
- [Ext] setTxLimit #
  - modifiers: onlyOwner
- [Ext] setMaxWallet #
  - modifiers: onlyOwner
- [Ext] setIsFeeExempt #
  - modifiers: onlyOwner
- [Ext] setIsTxLimitExempt #
  - modifiers: onlyOwner
- [Ext] setFees #
  - modifiers: onlyOwner
- [Ext] setFeeReceivers #
  - modifiers: onlyOwner
- [Ext] setSwapBackSettings #
  - modifiers: onlyOwner
- [Pub] getCirculatingSupply

(\$) = payable function

# = non-constant function



# 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.	Medium Issue
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

One medium severity issue found.

### 1. Out of gas

- **Issue:**

The function `airdrop()` uses the loop to distribute amounts to multiple accounts. Function will be aborted with `OUT_OF_GAS` exception if there will be a long addresses list.

- **Recommendation**

Be careful about addresses array length.

- **Issue:**

The function `protectWallet()` uses the loop to protect/unprotect wallets. Function will be aborted with `OUT_OF_GAS` exception if there will be a long wallets list.

- **Recommendation**

Be careful about wallets array length. Low Severity Issues.

## ✔ Low Severity Issues

No low severity issue found.

# Centralization

## Owner privileges (In the period when the owner is not renounced)

- WORLD CUP INU Token Contract:
  - Owner can set team members.
  - Owner can airdrop.
  - Owner can add liquidity pool.
  - Owner can change rate limit.
  - Owner can change max buy and sell tx amount.
  - Owner can change max wallet size.
  - Owner can include in and exclude from fee and transaction amount.
  - Owner can change fees.
  - Owner can change fee receivers.
  - Owner can change swapBack settings.
  - Team member can withdraw contract ETHs.
  - Team member can open trading.
  - Team member can stop trading.
  - Team member can disable pause trading.
  - Team member can change protection settings.

# Conclusion

Smart contract contains medium 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.