



## **Smart Contract Security Audit**

<u>TechRate</u> November, 2021

### **Audit Details**



**Audited project** 

Coin of the champions



Deployer address

0x61fa3f7d752bb4e6894459d55ff8cf6a6300ced8



**Client contacts:** 

Coin of the champions team



Blockchain

**Binance Smart Chain** 





### **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**

TechRate was commissioned by Coin of the champions to perform an audit of smart contracts:

 $\frac{https://bscscan.com/address/0xbDC3b3639f7AA19e623A4d603A3Fb7Ab20115A91\#code}{}$ 

#### 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 used 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.

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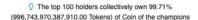
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## **Contracts Details**

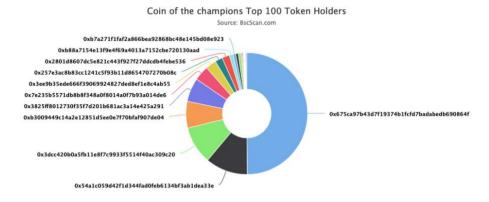
### Token contract details for 16.11.2021

Contract name	Coin of the champions	
Contract address	0xbDC3b3639f7AA19e623A4d603A3Fb7Ab20115A91	
Total supply	999,650,420,338,553.427681	
Token ticker	COC	
Decimals	18	
Token holders	7,202	
Transactions count	52,079	
Top 100 holders dominance	99.71%	
Tax fee	3	
Total fees	699159322893144636370645021110	
Contract deployer address	0x61fa3f7d752bb4e6894459d55ff8cf6a6300ced8	
Contract's current owner address	0x61fa3f7d752bb4e6894459d55ff8cf6a6300ced8	

# Coin of the champions Token Distribution



Token Total Supply: 999,650,420,338,553.43 Token | Total Token Holders: 7,202



(A total of 996,743,970,387,910.00 tokens held by the top 100 accounts from the total supply of 999,650,420,338,553.43 token)

# Coin of the champions Contract Interaction Details

Token Contract Overview

Token Contract OxbDC3b3639f7AA19e623AA46603A3Fb7Ab20115A91 (Coin of the champions)
Source: 8scScan.com

From Jul 19, 2021 To Nov 15, 2021

6k

4.5k

7 0kg

Com 1m 6m 1v All

1 800T

2 400T

2 400T

3 1 800T

2 400T

2 400T

4 5 k

7 0kg

Com 1m 6m 1v All

1 800T

2 4.5k

7 0kg

Com 1m 6m 1v All

1 800T

2 4.5k

7 0kg

Com 1m 6m 1v All

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Com 1m 6m 1v All

1 800T

2 4.5k

7 0kg

Com 1m 6m 1v All

1 800T

2 5 0ct 1. Nov 8. Nov 15. Nov

1 1. Nov

# Coin of the champions Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x675ca97b43d7f19374b1fcfd7badabedb690864f	498,520,153,040,158.218770050609629424	49.8694%
2	0x54a1c059d42f1d344fad0feb6134bf3ab1dea33e	112,744,103,038,291.273460229952793985	11.2784%
3	0x3dcc420b0a5fb11e8f7c9933f5514f40ac309c20	100,025,579,959,785.050163120530724317	10.0061%
4	0xb3009449c14a2e12851d5ee0e7f70bfaf907de04	70,940,961,975,192.107161734581504658	7.0966%
5	0x3825ff8012730f35f7d201b681ac3a14e425a291	62,870,954,548,169.027616107883787829	6.2893%
6	0x7e235b5571db8b8f348a0f8014a0f7b93a014de6	40,012,476,745,817.307589735244985311	4.0026%
7		28,249,484,848,216	2.8259%
8	0x257e3ac8b83cc1241c5f93b11d8654707270b08c	20,000,000,000,000	2.0007%
9	0x2801d8607dc5e821c443f927f27ddcdb4febe536	19,954,829,323,590.027763854974534317	1.9962%
10	☐ 0xb88a7154e13f9e4f69a4013a7152cbe720130aad	9,707,486,459,010.335522949843545667	0.9711%

### **Contract functions details**

- + Context - [Int] \_msgSender - [Int] \_msgData + AdminRole (Ownable) - [Pub] <Constructor> # - [Pub] addAdmin # - modifiers: onlyAdmin - [Pub] removeAdmin # - modifiers: onlyAdmin - [Pub] checkIfAdmin + Pausable (AdminRole) - [Pub] pause # - modifiers: onlyAdmin,whenNotPaused - [Pub] unpause # - modifiers: onlyAdmin,whenPaused - [Pub] notPausable # - modifiers: onlyAdmin + [Int] IBEP20 - [Ext] name - [Ext] symbol - [Ext] decimals - [Ext] totalSupply - [Ext] balanceOf - [Ext] getOwner - [Ext] transfer # - [Ext] transferFrom # - [Ext] approve # - [Ext] allowance + [Lib] SafeMath - [Int] add - [Int] sub - [Int] sub - [Int] mul - [Int] div - [Int] div - [Int] mod - [Int] mod + Ownable (Context) - [Pub] <Constructor> # - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlyOwner - [Pub] transferOwnership # - modifiers: onlyOwner + COC (IBEP20, AdminRole, Pausable) - [Pub] <Constructor> # - [Pub] name
  - [Pub] symbol
  - [Pub] decimals
  - [Pub] totalSupply

  - [Pub] getTaxFee

```
- [Pub] getBurnFee
- [Pub] balanceOf
- [Ext] getOwner
- [Pub] transfer #
 - modifiers: whenNotPaused
- [Pub] transferFrom #
 - modifiers: whenNotPaused
- [Pub] approve #
 - modifiers: whenNotPaused
- [Pub] allowance
- [Pub] increaseAllowance #
 - modifiers: whenNotPaused
- [Pub] decreaseAllowance #
 - modifiers: whenNotPaused
- [Int] _transfer #
- [Int] _approve #
- [Pub] excludeFromReward #
 - modifiers: onlyAdmin
- [Ext] includeInReward #
 - modifiers: onlyAdmin
- [Pub] isExcludedFromReward
- [Pub] excludeFromFee #
 - modifiers: onlyAdmin
- [Pub] includeInFee #
 - modifiers: onlyAdmin
- [Pub] isExcludedFromFee
- [Prv] removeAllFee #
- [Prv] restoreAllFee #
- [Prv] reflectFee #
- [Pub] totalFees
- [Pub] totalBurn
- [Prv] transferStandard #
- [Prv] _transferFromExcluded #
- [Prv] transferToExcluded #
- [Prv] transferBothExcluded #
- [Prv] _getTransferValues
- [Prv] _getFee
- [Prv] getRValues
- [Prv] _getRate
- [Prv] getCurrentSupply
- [Pub] tokenFromReflection
- [Pub] reflectionFromToken
- [Ext] setTaxFeePercent #
 - modifiers: onlyAdmin
- [Ext] setBurnFeePercent #
 - modifiers: onlyAdmin
- [Ext] addAddressToBlacklist #
 - modifiers: onlyAdmin
- [Ext] removeAddressFromBlacklist #
 - modifiers: onlyAdmin
- [Pub] isBlacklisted
```

(\$) = payable function # = non-constant function

# **Issues Checking Status**

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Low issues
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

### **Security Issues**

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

- Low Severity Issues
  - 1. Out of gas

Issue:

 The function includeInAccount() uses the loop to find and remove addresses from the \_excluded list. Function will be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list.

 The function \_getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT\_OF\_GAS exception if there will be a long excluded addresses list.

#### Recommendation:

Check that the excluded array length is not too big.

### Conclusion

Smart contracts contain low severity issues!

#### TechRate 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.





