

Smart Contract Security Audit Report

BSC Conflux

January 2023



Audit Details



Audited project

BSC Conflux



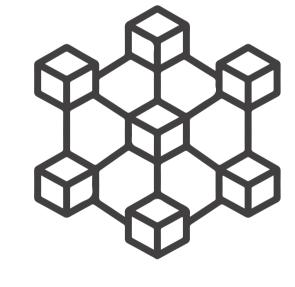
Deployer address

0x7808501d56feb39533c151939e69ef1b89d30026



Client contacts

BSC Conflux Team



Blockchain

Binance smart chain



Website

Https://Www.Confluxnetwork.Org/

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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 BSC Conflux to perform an audit of smart contracts:

• https://bscscan.com/address/0x045c4324039dA91c52C55DF5D785385Aab073DcF#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 06.01.2023

Token Type : DEFI

Contract name : cERC20

Contract address : 0x045c4324039dA91c52C55DF5D785385Aab073DcF

Total supply : 706,183,854.155879

Token ticker : bCFX

Decimals : 18

Token Holders : 11,167

Transactions count : 224,556

Compiler version : v0.5.11+commit.c082d0b4

Contract deployer

address

: 0x7808501d56feb39533c151939e69ef1b89d30026

Owner address : No owner

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Social profiles

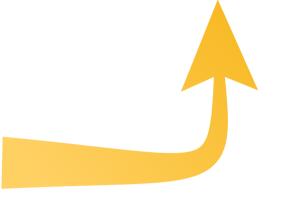
| Twitter profile | : https://twitter.com/@Conflux_Network |
|-----------------------|---|
| Github profile | : https://github.com/conflux-chain |
| Telegram profile | : https://t.me/Conflux_English |
| Coinmarketcap profile | : https://coinmarketcap.com/currencies/conflux-network/ |

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Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are **"well Secure"**. This token contract does not contain owner control, 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 0 low.

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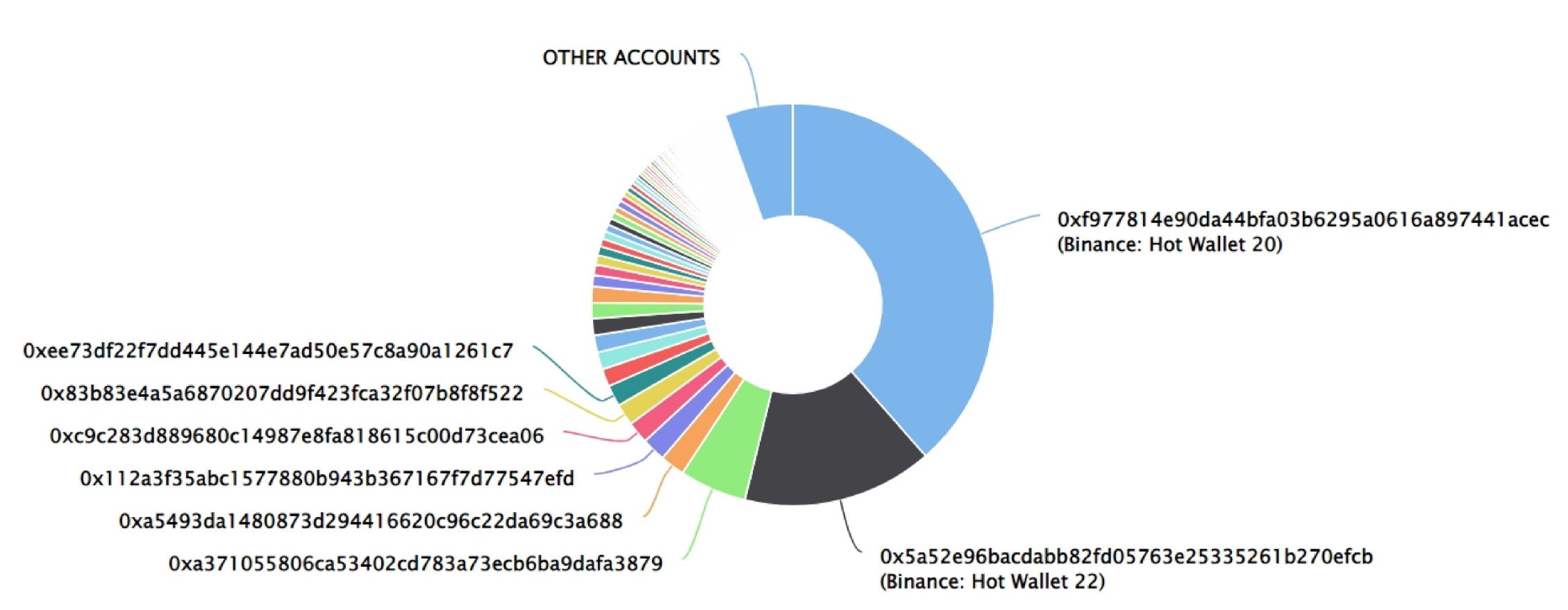
BSC Conflux Token Distribution

The top 100 holders collectively own 94.52% (667,458,886.83 Tokens) of BSC Conflux

Token Total Supply: 706,183,854.16 Token | Total Token Holders: 11,167

BSC Conflux Top 100 Token Holders





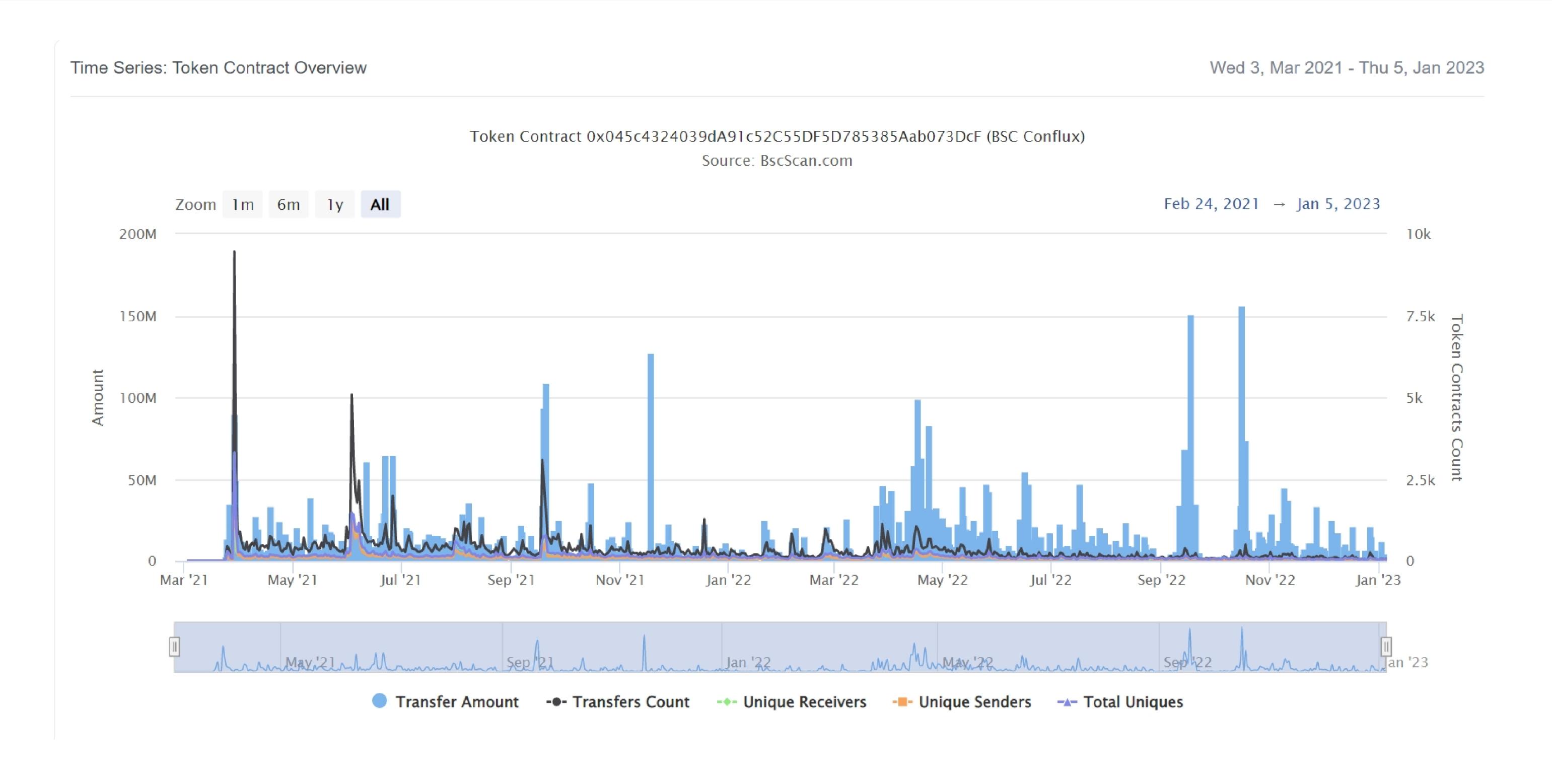
BSC Conflux Top 20 Token Holders

(A total of 667,458,886.83 tokens held by the top 100 accounts from the total supply of 706,183,854.16 token)

| Rank | Address | Quantity (Token) | Percentage |
|------|--|-------------------------------|------------|
| 1 | Binance: Hot Wallet 20 | 272,311,882.76503721 | 38.5610% |
| 2 | Binance: Hot Wallet 22 | 108,000,000 | 15.2935% |
| 3 | 0xa371055806ca53402cd783a73ecb6ba9dafa3879 | 38,087,110.030002955920456215 | 5.3934% |
| 4 | 0xa5493da1480873d294416620c96c22da69c3a688 | 13,999,994.9 | 1.9825% |
| 5 | 0x112a3f35abc1577880b943b367167f7d77547efd | 13,520,157.4800404096378083 | 1.9145% |
| 6 | 0xc9c283d889680c14987e8fa818615c00d73cea06 | 12,500,000 | 1.7701% |
| 7 | 0x83b83e4a5a6870207dd9f423fca32f07b8f8f522 | 12,402,644.5646974 | 1.7563% |
| 8 | 0xee73df22f7dd445e144e7ad50e57c8a90a1261c7 | 12,042,966.675158569418708071 | 1.7054% |
| 9 | 0x3b7e9f9b0b47c1f64b93f27f5c9d1a0f661f1da9 | 9,979,482.072377905961054624 | 1.4132% |
| 10 | Binance: Hot Wallet 6 | 9,870,186.881087088031440425 | 1.3977% |
| 11 | 0x96d7985b0c90b9401b8b980f5bdee576d13f5036 | 9,640,335.066000000000000004 | 1.3651% |
| 12 | 0x448bcf9164ec545df6f6841748faaf8e5e5ac26d | 9,512,632.519935013925307971 | 1.3470% |
| 13 | 0x86165126a620fea9cf06f2fdae5332f6ad696e74 | 9,048,881.632 | 1.2814% |
| 14 | 0x43d06583880074a9006a82fb107f29204399bc35 | 9,009,838.09055934445414 | 1.2758% |
| 15 | 0x2ede63869b2432053565200e3fa2ae79afbb01cd | 6,400,000 | 0.9063% |
| 16 | 0xa5e7fdbb592cfcb8f39d3ca525de2650b6404656 | 6,053,757.662276176949692349 | 0.8572% |
| 17 | 0x0e5176cd11c0af238e1d2769865a06572e0bb169 | 5,332,163.109768658141681015 | 0.7551% |
| 18 | 0x5fd8c738d6275ada7ebdfc9ef30df7b897d62a21 | 5,100,000 | 0.7222% |
| 19 | 0x362c4d3e4ef4b0bbf553d27ad4a80c1e88d5ee0a | 4,412,998.201458448139584362 | 0.6249% |
| 20 | 0x83da47ab9d850e2352edc200f172dbab39f66d84 | 4,409,772.263711023612890186 | 0.6245% |

BSC Conflux Token Distribution

BSC Conflux Contract Overview



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Contract functions details

```
+[Int] IcERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer
    -[Ext] allowance
    -[Ext] approve
    -[Ext] name
    -[Ext] symbol
    -[Ext] decimals
    -[Ext] mint
+[Lib] SafeMath
    -[Int] add
    -[Int] sub
    -[Int] sub
    -[Int] mul
    -[Int] div
    -[Int] div
    -[Int] mod
    -[Int] mod
+cERC20 (IcERC20)
    -[Pub] < constructor>#
    -[Int] _onlyCore
    -[Pub] setCore #
    -[Pub] name
    -[Pub] symbol
    -[Pub] decimals
    -[Pub] totalSupply
    -[Pub] balanceOf
    -[Pub] transfer #
    -[Pub] allowance
    -[Pub] approve #
    -[Pub] transferFrom #
    -[Pub] increaseAllowance #
    -[Pub] decreaseAllowance #
    -[Int] _transfer #
    -[Pub] mint #
    -[Int] _mint #
    -[Int] _approve #
```

Contract functions details

(\$) = 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 | Passed |
| | | |

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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 IssuesNo low severity issue found.

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Conclusion

Smart contract contains no 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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