

Smart Contract Security Audit Report

Blockchain Land

July 2022

Security Status



www.hacksafe.io

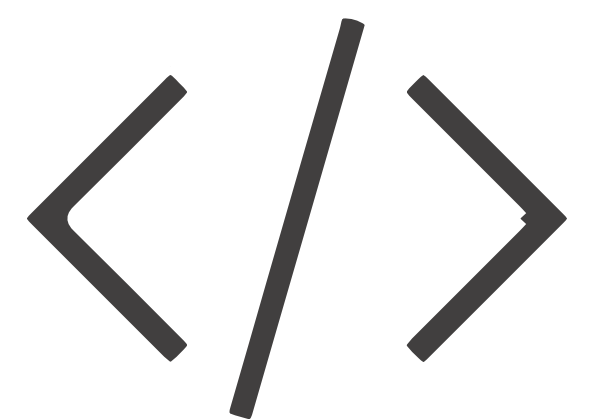


Audit Details



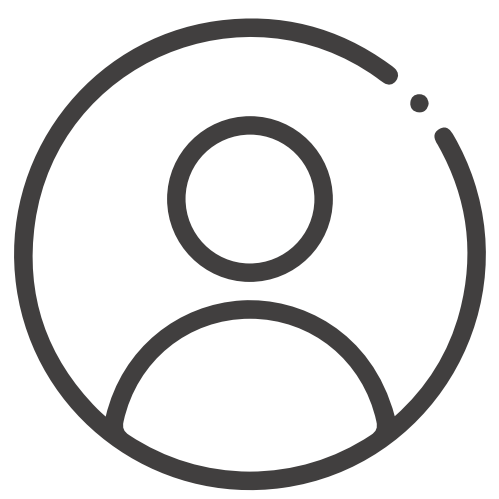
Audited project

Blockchain Land



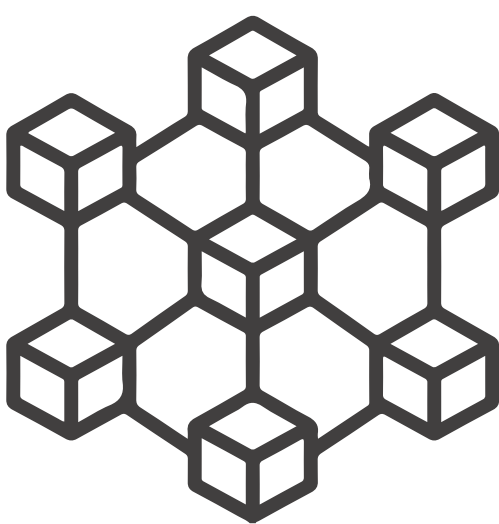
Deployer address

0xFACE67a28694fe815c5EFB46b32B0506d0f6b568



Client contacts

Blockchain Land



Blockchain

Binance Smart chain



Website

<https://blockchain.land/>

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 Blockchain Land to perform an audit of smart contract:

- <https://bscscan.com/address/0x471a5e862af35d2148bd8b505b361b1ddf5ffef1#code>

The purpose of the audit was to achieve the

- 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 05.07.2022

Token Type	: BEP20
Contract name	: Token
Contract address	: 0x471A5e862af35D2148bd8b505b361b1DDf5fFef1
Compiler version	: v0.8.10+commit.fc410830
Total supply	: 7,210,000,000
Token Ticker	: BCL
Decimals	: 18
Token Holders	: 1
Top 100 token holder's dominance	: 100.00%
Transactions count	: 1
Contract deployer address	: 0xFACE67a28694fe815c5EFB46b32B0506d0f6b568
Owner address	: 0xFACE67a28694fe815c5EFB46b32B0506d0f6b568

Social profiles

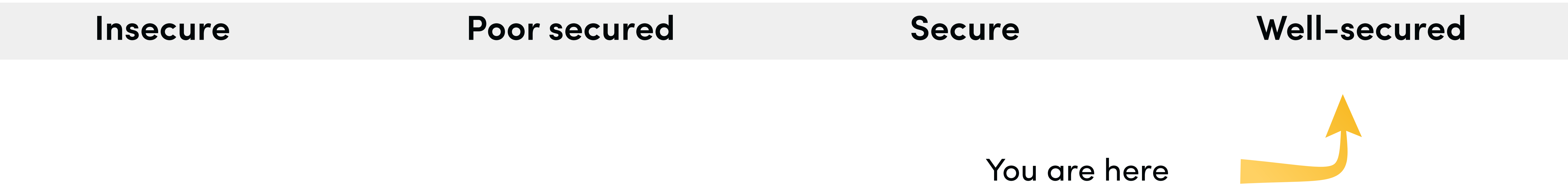
Twitter Profile	: https://twitter.com/land_blockchain
Facebook Profile	: https://www.facebook.com/BlockchainLandOfficial/
Instagram profile	: https://www.instagram.com/theblockchainland/
Youtube profile	: https://www.youtube.com/channel/UCyM4Z0ZDNpcB7Cjr14Q0G3A
Telegram Profile	: https://t.me/BlockchainLandOfficial
LinkedIN Profile	: https://www.linkedin.com/company/blockchain-land/
Medium Profile	: https://blockchainland.medium.com/

Claimed Smart Contract Features

Claimed Feature Detail	Our Observation
<p>Tokenomics :</p> <ul style="list-style-type: none">• Name : Blockchain Land• Symbol : BCL• Decimals : 18• Protocol : BEP20• Max Total supply : 7,210,000,000• Contract address : 0x471A5e862af35D2148bd8b505b361b1DDf5fFef1	<p>Yes, This is valid.</p>

Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are “Well 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 and manual 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 and some very low-level issues.

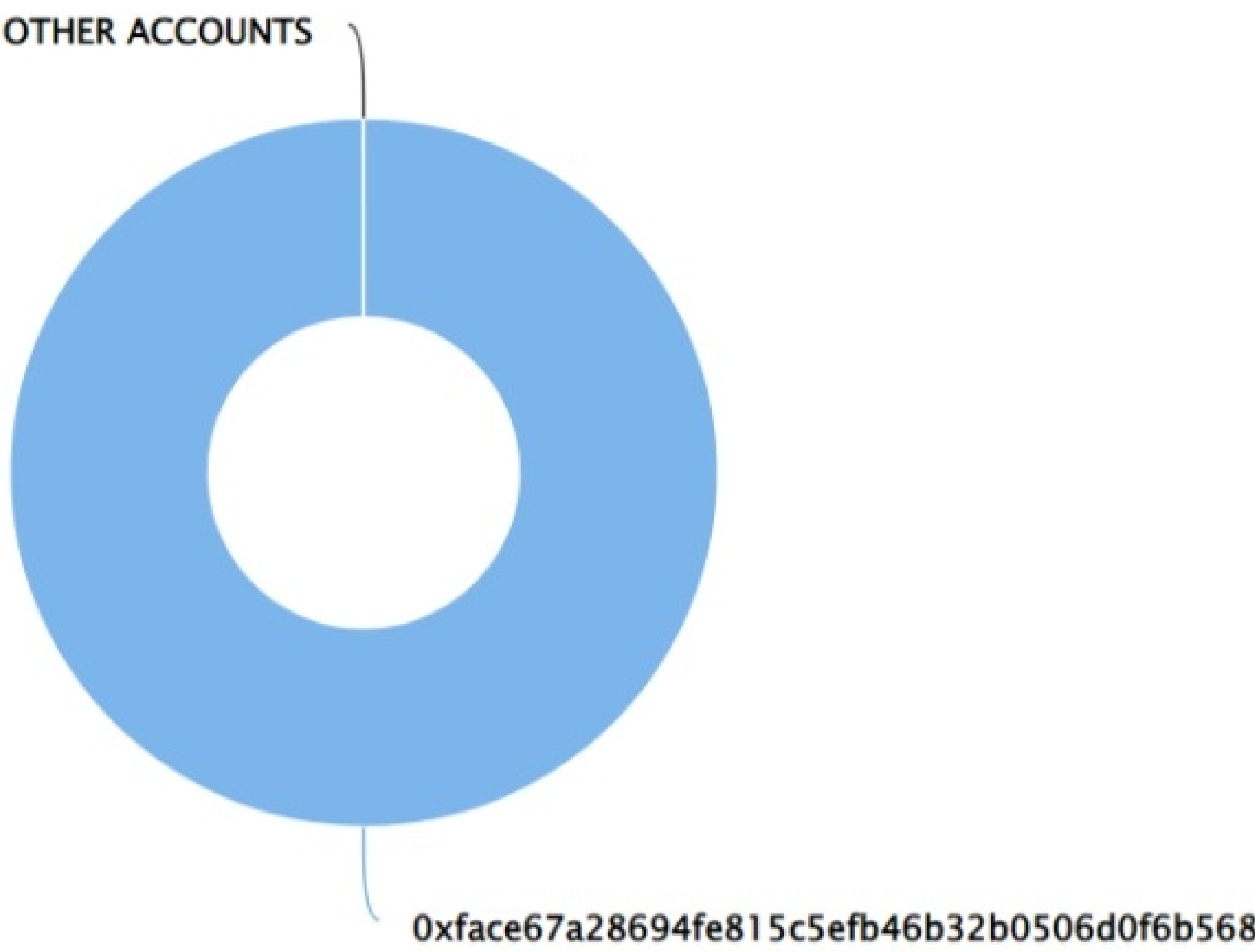
Blockchain Land Distribution

The top 100 holders collectively own 100.00% (7,210,000,000.00 Tokens) of Blockchain Land

Token Total Supply: 7,210,000,000.00 Token | Total Token Holders: 1

Blockchain Land Top 100 Token Holders

Source: BscScan.com



Blockchain Land Top 01 Token Holders

(A total of 7,210,000,000.00 tokens held by the top 100 accounts from the total supply of 7,210,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0xface67a28694fe815c5efb46b32b0506d0f6b568	7,210,000,000	100.0000%

Blockchain Land Distribution

Blockchain Land Contract Overview



Contract functions details

+ [Int] IERC20

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

+ [Int] IERC20Metadata (IERC20)

- [Ext] name
- [Ext] symbol
- [Ext] decimals

+ Context

- [Int] _msgSender

+ ERC20 (Context, IERC20, IERC20Metadata)

- <constructor> #
- [Pub] lockvalue #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [Pub] totalSupply
- [Pub] burner #
- [Pub] balanceOf
- [Pub] transfer #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance
- [Pub] decreaseAllowance
- [Int] _transfer #
- [Int] _mint #
- [Int] _burn #
- [Int] _approve #
- [Int] _spendAllowance #
- [Int] _beforeTokenTransfer #
- [Int] _afterTokenTransfer #

Contract functions details

+ Token (ERC20)

-<constructor> #

- [Pub] mint #

-modifiers: onlyOwner

-[Pub] burn #

(\$) = payable function

= non-constant function

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	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.	Compiler version too old	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

No low severity issue found.

Centralization

Owner Privileges :

- Blockchain Land Contract:
 - Owner can mint new tokens upto maximum cap supply.
 - Owner can lock value for some time when owner transfer amount of other address.

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. Following are Admin functions and burner functions:

- Mint
- Lockvalue

Conclusion

Smart contract contains no 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.