HackSafe

Smart Contract Security Audit Report

Blockchain Land

November 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://www.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.

DISCLAIMER: By reading this report or any part of it, you agree to the terms of this disclaimer. If you do not agree to the terms, then please immediately cease reading this report, and delete and destroy any and all copies of this report downloaded and/or printed by you. This report is provided for information purposes only and on a non-reliance basis, and does not constitute investment advice. No one shall have any right to rely on the report or its contents, and TechRate and its affiliates (including holding companies, shareholders, subsidiaries, employees, directors, officers and other representatives) (HackSafe) owe no duty of care towards you or any other person, nor does HackSafe make any warranty or representation to any person on the accuracy or completeness of the report. The report is provided "as is", without any conditions, warranties or other terms of any kind except as set out in this disclaimer, and HackSafe hereby excludes all representations, warranties, conditions and other terms (including, without limitation, the warranties implied by law of satisfactory quality, fitness for purpose and the use of reasonable care and skill) which, but for this clause, might have effect in relation to the report. Except and only to the extent that it is prohibited by law, HackSafe hereby excludes all liability and responsibility, and neither you nor any other person shall have any claim against HackSafe, for any amount or kind of loss or damage that may result to you or any other person (including without limitation, any direct, indirect, special, punitive, consequential or pure economic loss or damages, or any loss of income, profits, goodwill, data, contracts, use of money, or business interruption, and whether in delict, tort (including without limitation negligence), contract, breach of statutory duty, misrepresentation (whether innocent or negligent) or otherwise under any claim of any nature whatsoever in any jurisdiction) in any way arising from or connected with this report and the use, inability to use or the results of use of this report, and any reliance on this report.

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 contracts:

- https://bscscan.com/address/0x0Cb49b5cfDC79b4511e5A358e6863db6591398F6
- https://bscscan.com/address/0x425c9c34d3172955a612e8aa15a94d4eb5250b8e
- https://bscscan.com/address/0x471a5e862af35d2148bd8b505b361b1ddf5ffef1
- https://bscscan.com/address/0x188095dec299379d77b03d444E29Cc5188690d14
- https://bscscan.com/address/0xcCdd20120bCeaa7456DB6B2cf63030454D63E6A4
- https://bscscan.com/address/0xfF04e91CC69AD9481E86C887ae0C8Ca93b2aE830
- https://bscscan.com/address/0x16B292afDef7d841408A059b1128B1b469D2AB75

The purpose of the audit was to achieve the following:

- Ensutre 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.

Contract Details

Contract details for 03.11.2022

1.BCL citizenship

Contract address	: 0x0Cb49b5cfDC79b4511e5A358e6863db6591398F6
Transactions count	: 334
Compiler version	: v0.8.10+commit.fc410830
Contract deployer address	: 0xFACE67a28694fe815c5EFB46b32B0506d0f6b568

2.Swap

Contract address	: 0x425c9c34d3172955a612e8aa15a94d4eb5250b8e
Transactions count	: 18
Compiler version	: v0.8.10+commit.fc410830
Contract deployer address	:0xFACE67a28694fe815c5EFB46b32B0506d0f6b568

3. BCL Token

Contract address	: 0x471a5e862af35d2148bd8b505b361b1ddf5ffef1
Total supply	: 7,210,000,000
Token ticker	: BCL
Decimals	: 18
Token holders	: 37
Transactions count	: 232
Compiler version	: v0.8.10+commit.fc410830
Contract deployer address	: 0xFACE67a28694fe815c5EFB46b32B0506d0f6b568
Contract owner address	: 0xFACE67a28694fe815c5EFB46b32B0506d0f6b568

Contract Details

4.Land contract

Contract address	: 0x188095dec299379d77b03d444E29Cc5188690d14
Transactions count	: 3
Compiler version	: v0.8.10+commit.fc410830
Contract deployer address	: 0xFACE67a28694fe815c5EFB46b32B0506d0f6b568

5. Deployment contract

Contract address	: 0xcCdd20120bCeaa7456DB6B2cf63030454D63E6A4
Transactions count	: 1
Compiler version	: v0.8.10+commit.fc410830
Contract deployer address	: 0xFACE67a28694fe815c5EFB46b32B0506d0f6b568

6.BCL NFT contract

Contract address	: 0xfF04e91CC69AD9481E86C887ae0C8Ca93b2aE830
Transactions count	: 516
Compiler version	: v0.8.10+commit.fc410830
Contract deployer address	: 0xFACE67a28694fe815c5EFB46b32B0506d0f6b568

7.NFT Marketplace

Contract address	: 0x16B292afDef7d841408A059b1128B1b469D2AB75
Transactions count	: 257
Compiler version	: v0.8.10+commit.fc410830
Contract deployer address	: 0xFACE67a28694fe815c5EFB46b32B0506d0f6b568

Social profiles

Twitter Profile	: https://twitter.com/land_blockchain
Facebook profile	: https://www.facebook.com/BlockchainLandOfficial/
Telegram profile	: https://t.me/BlockchainLandOfficial
Linkedin profile	: https://www.linkedin.com/company/75662085/admin/
Medium blog profile	: https://blockchainland.medium.com/
Discord profile	: https://discord.com/invite/8hZVg9ACNz

Claimed token BCL Smart Contract Features

Claimed Feature Detail	Our Observation
Tokenomics: • **Name** : Blockchain Land • **Symbol** : BCL • **Decimals** : 18 • **Protocol** : BEP20 • **Total supply** : 7,210,000,000 • **Contract address** : 0x471A5e862af35D2148bd8b505b361b1DDf5fFef1	YES, this is valid.

Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are **“Well Secure”.** This token contract does contain owner control in token contract, which do not make it fully decentralized as owner does have control over smart contract, where owner can mint new tokens not exceeding the total cap value.

Insecure	Poor secured	Secure	Well-secured

You are here 

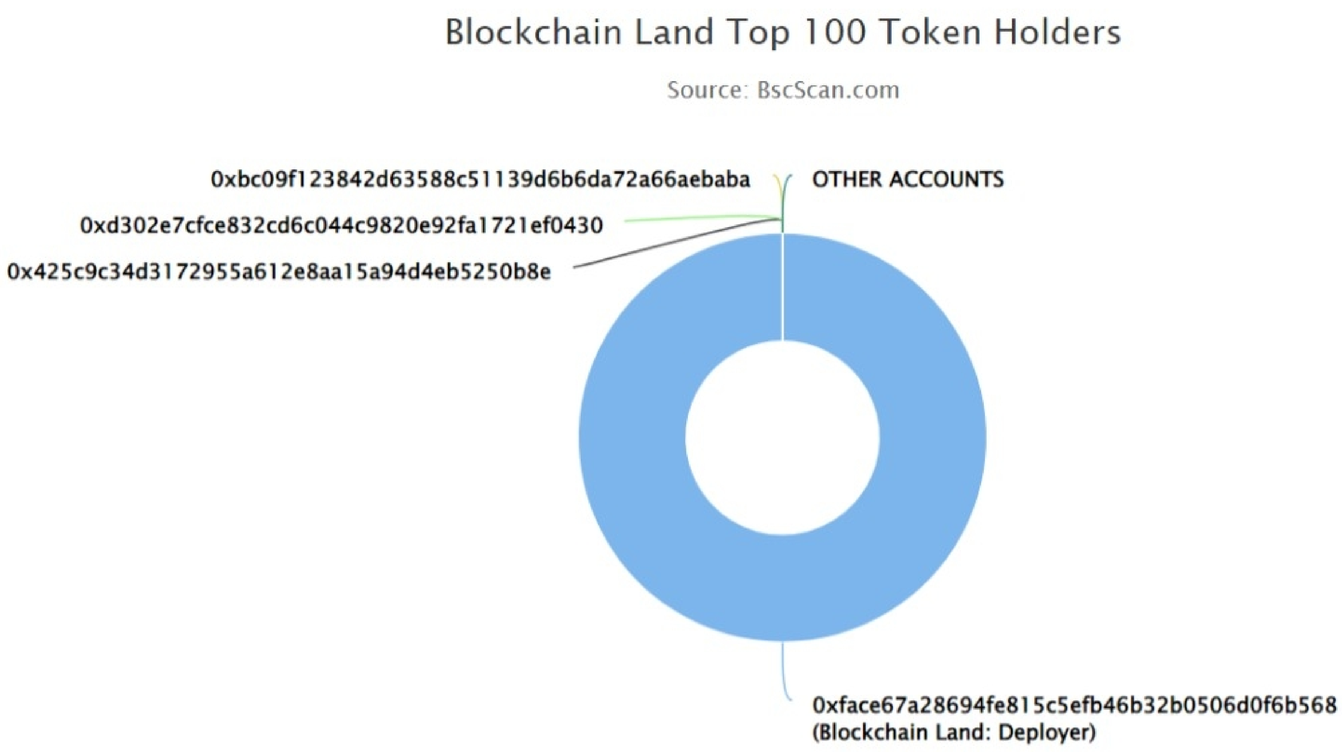
We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 0 low.

Blockchain Land Token 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: 37



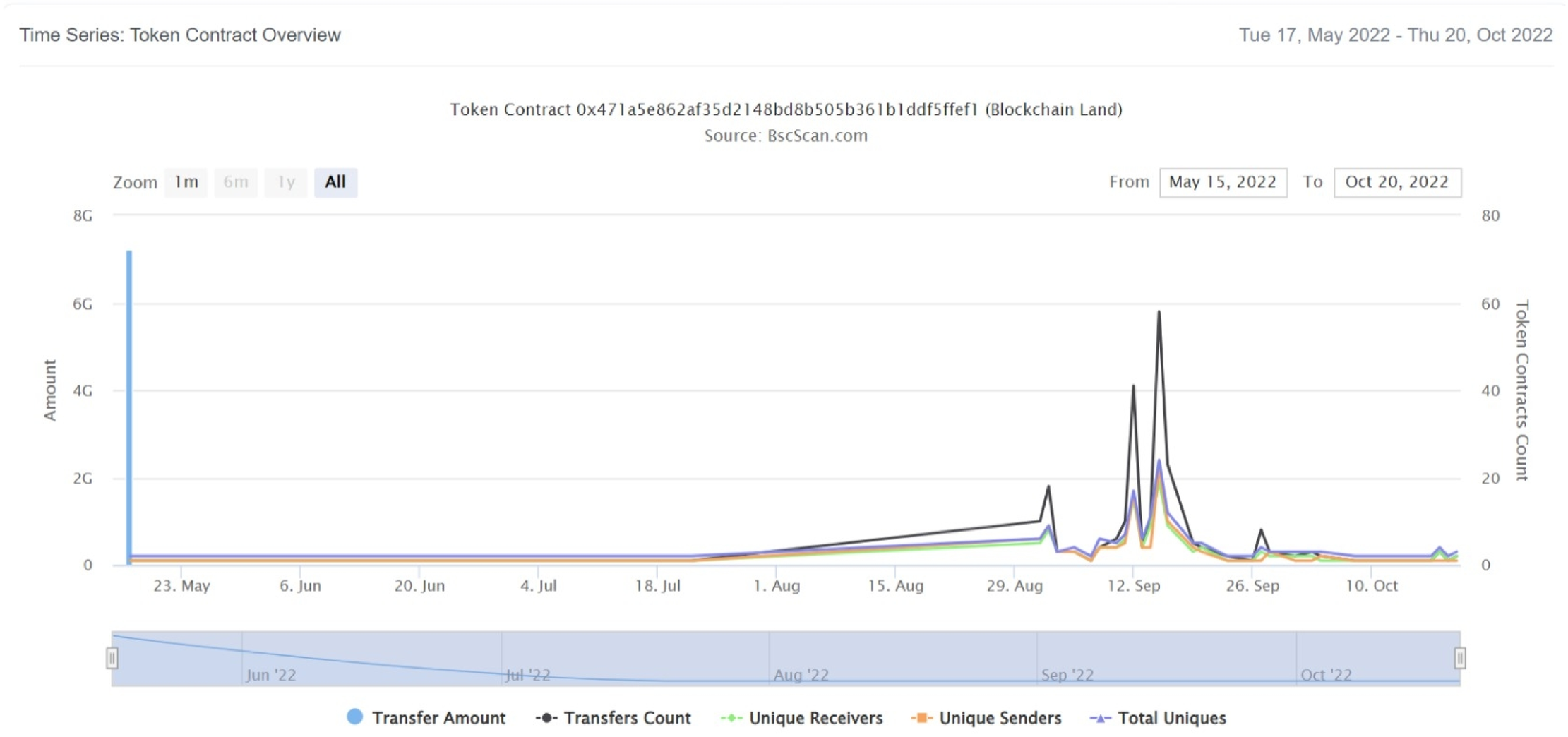
Blockchain Land Top 20 Token Holders

(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	Blockchain Land: Deployer	7,209,806,209	99.9973%
2	0x425c9c34d3172955a612e8aa15a94d4eb5250b8e	99,150	0.0014%
3	0xd302e7cfce832cd6c044c9820e92fa1721ef0430	87,990	0.0012%
4	0x07059318e09f6afaf1bbea2579865180ce9b0900	900	0.0000%
5	0x4a7b26c691141621dd5205fd7c26776e3e800008	900	0.0000%
6	0xca0438d0b11fdc706c81705a34130cfd9e02edee	900	0.0000%
7	0xbc09f123842d63588c51139d6b6da72a66aebaba	900	0.0000%
8	0x4f5c58b1585781d23d8d4d999da4148eeddb5fa3	241	0.0000%
9	0x6fc92fde4c90bb076bd958de984c5fca30b1cb43	223	0.0000%
10	0x4e75c113f5017004ddd72c5a7f95912106a7b300	210	0.0000%
11	0x0107895042bbfd6bc00bfbbcb96ea46a5b436b4e	200	0.0000%
12	0xbc054643939f0cabd379d7f6071292dce7563f70	200	0.0000%
13	0xbc085ddcd61f2f36bf6e681d865c5b539baa1471	180	0.0000%
14	0xcd9392895f74539ddde4058439db325fe7540948	170	0.0000%
15	0x4a539349b1b878d9b6b19da3a4f927d8375479d9	135	0.0000%
16	0x55caa2e1f91921b3d7f90dad0fc6b51fc7734dd7	100	0.0000%
17	0xbc45ad51c19dce6bc31783fbaa862352457af825	100	0.0000%
18	0x9e2f3a3cada21f5a5f2f9fa18ed621ca7c1d85da	100	0.0000%
19	0x1ae94776c39fd6a9953b3e60595a3dad3adc6578	100	0.0000%
20	0xe27b8ecbae4facd5b6357296ef63a51000fa7927	100	0.0000%

Blockchain Land Token Distribution

Blockchain Land Contract Overview



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.	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 issues found.
- **Medium Severity Issues**
  No medium severity issues found.
- **Low Severity Issues**
  No low severity issues founds.

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.