



Smart Contract Security Audit Report

Blockport

December 2022

Security Status



www.hacksafe.io

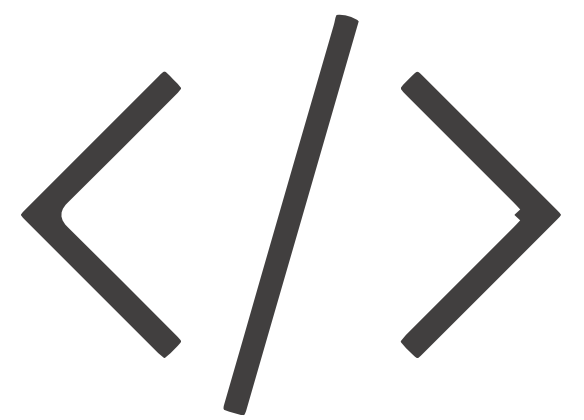


Audit Details



Audited project

Blockport



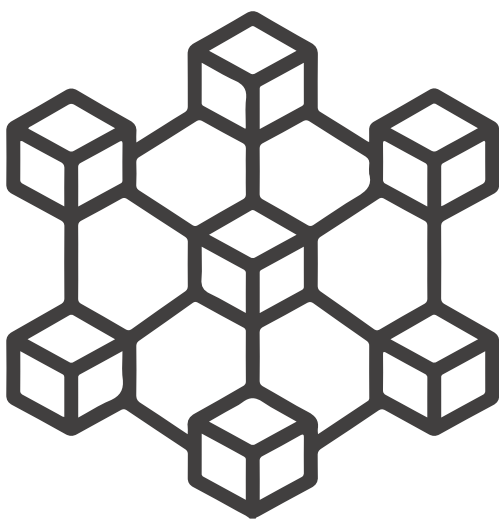
Deployer address

0x9e6361d691a41e9585208df75325cc4184c00a8b



Client contacts

Blockport 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 Blockport to perform an audit of smart contracts:

- <https://etherscan.io/token/0x327682779bab2bf4d1337e8974ab9de8275a7ca8#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.

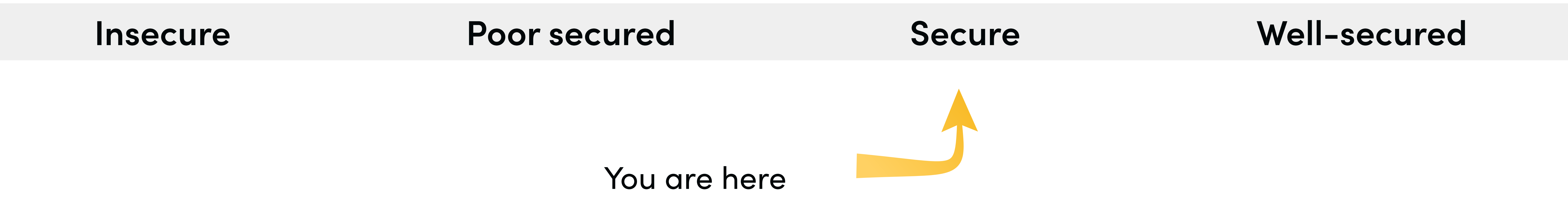
Contract Details

Token contract details for 15.12.2022

Token Type	: DEFI
Contract name	: BlockportToken
Contract address	: 0x327682779bAB2BF4d1337e8974ab9dE8275A7Ca8
Total supply	: 69,434,799.629211243921141504
Token ticker	: BPT
Decimals	: 18
Token Holders	: 9,058
Transactions count	: 48,658
Compiler version	: v0.4.19+commit.c4cbbb05
Contract deployer address	: 0x9e6361d691a41e9585208df75325cc4184c00a8b
Owner address	: 0x9E6361d691a41e9585208DF75325cc4184c00A8B

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.



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 2 low.

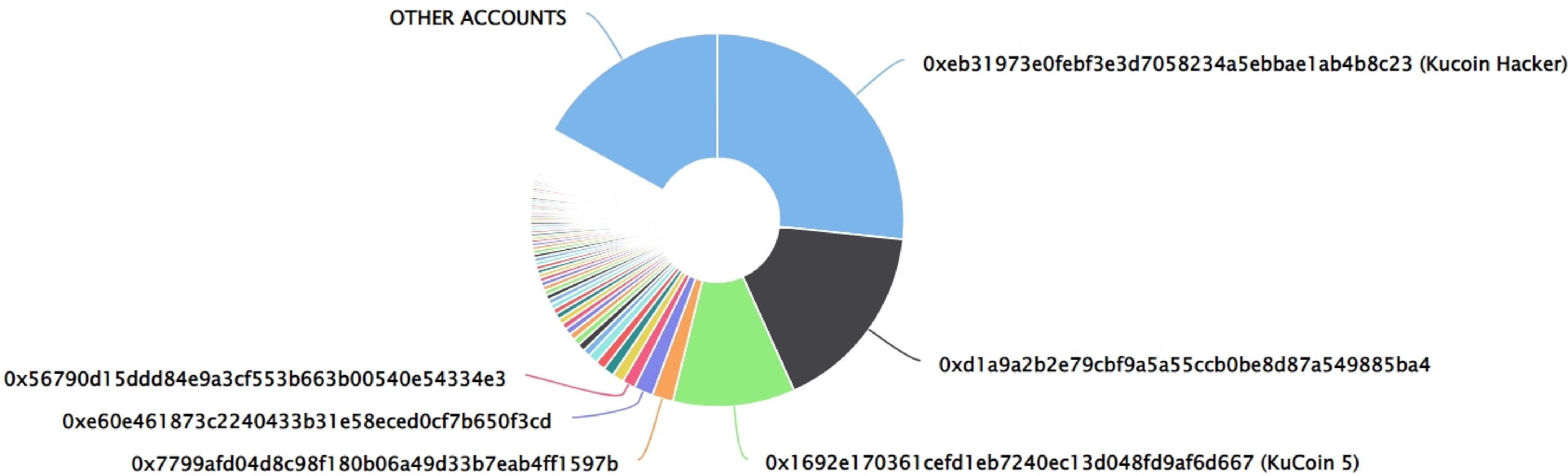
Blockport Token Distribution

💡 The top 100 holders collectively own 83.04% (57,655,681.53 Tokens) of Blockport

💡 Token Total Supply: 69,434,799.63 Token | Total Token Holders: 9,058



Blockport Top 100 Token Holders

Source: Etherscan.io



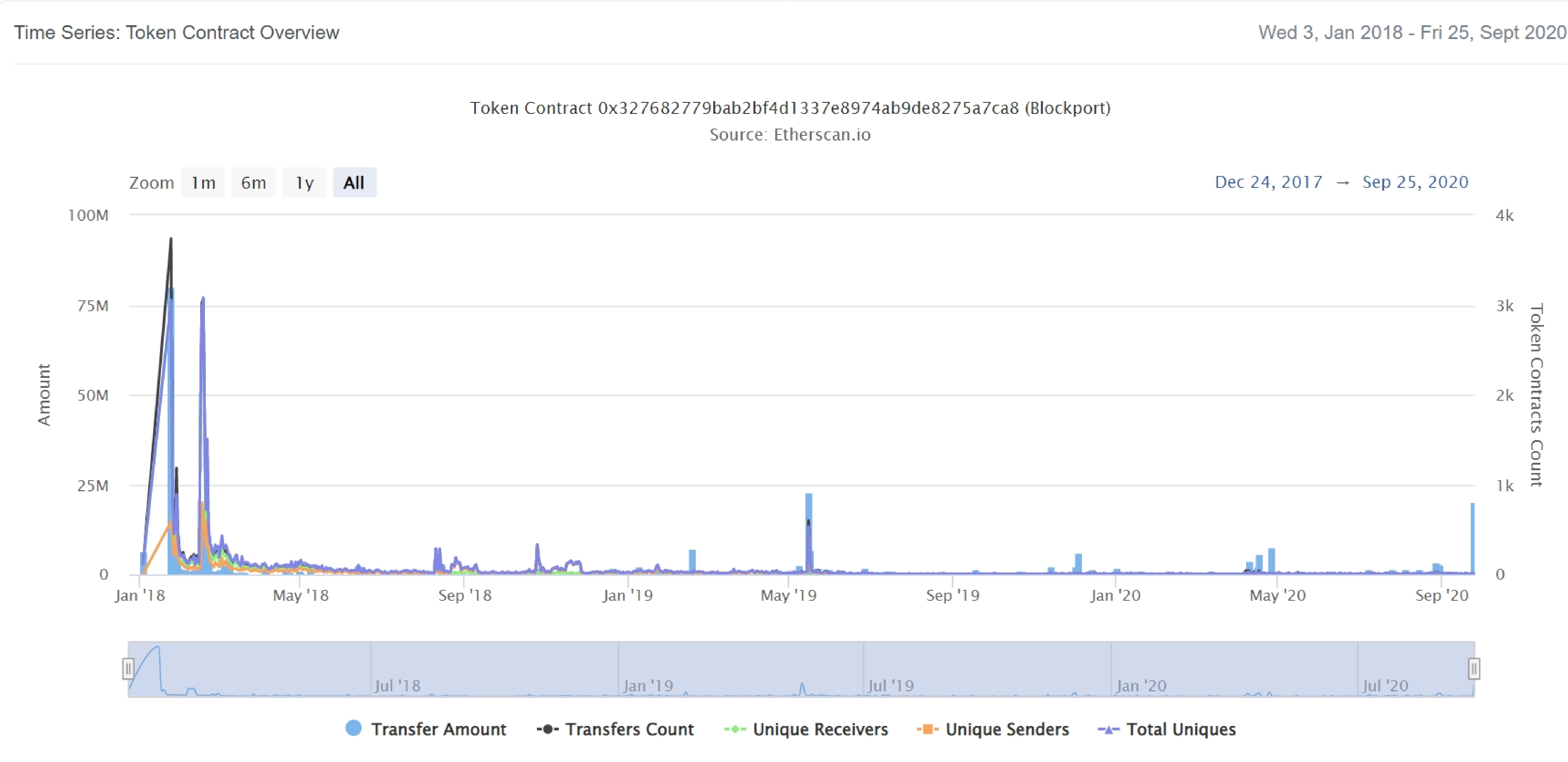
Blockport Top 20 Token Holders

(A total of 57,655,681.53 tokens held by the top 100 accounts from the total supply of 69,434,799.63 token)

Rank	Address	Quantity (Token)	Percentage
1	Kucoin Hacker	18,506,526.825629550336207709	26.6531%
2	 0xd1a9a2b2e79cbf9a5a55ccb0be8d87a549885ba4	11,530,026.179774641119794144	16.6055%
3	KuCoin 5	7,359,422	10.5990%
4	0x7799afd04d8c98f180b06a49d33b7eab4ff1597b	1,256,291.24331349	1.8093%
5	0xe60e461873c2240433b31e58eced0cf7b650f3cd	1,155,022.09764464	1.6635%
6	0x56790d15ddd84e9a3cf553b663b00540e54334e3	770,274.8880109603376843	1.1093%
7	0x0572a99f654cb6711a36596aba4f3caff5527654	700,000	1.0081%
8	 IDEX	637,141.436034752100459908	0.9176%
9	0xb0de3d88060c60887d2b5990189695589a746b5e	600,000	0.8641%
10	0x22bbfe1994b410738e1c7d823e602ef697a7a198	578,014.2395	0.8325%
11	0x99df2abf89c049b7c9325ce851b4b2ffc892685b	450,486.01501163	0.6488%
12	0x262b6684f6b0c7ed4939fbb504da5318aebe3d0b	448,283.86183403	0.6456%
13	0xfa75909aff099fa460a8a0d3eb0787e43dd02677	410,615.9301654	0.5914%
14	0x3fd1359cbadae8db0f0930d78d11f58053d991c1	400,350	0.5766%
15	0xb5d1db6cc0c69cc0008ef933206a08903c16c4d5	387,592.77742043	0.5582%
16	0x7824803f57d7ecdbc4c654d53d9c34563a1f411c	368,800	0.5311%
17	0x5f4820b6ffcfcfd65de5c8798aa8249db4eca4fbd	360,000	0.5185%
18	0x135a6d9d29e3c764b708a3b122385416f3a22329	336,143.29201476	0.4841%
19	0x3f35ef3c4d1957234ed70a1befe5c9c222a61ef	320,514.28428659	0.4616%
20	0xe79faa3c0cda98503ee9fbd093fd4b4f2056064a	317,643.11358087	0.4575%

Blockport Token Distribution

Blockport Contract Overview



Contract functions details

+Ownable

- [Pub] Ownable
- [Pub] transferOwnership #
- modifiers: onlyOwner

+[Lib] SafeMath

- [Int] mul
- [Int] div
- [Int] sub
- [Int] add

+ERC20Basic

- [Pub] balanceOf
- [Pub] transfer

+BasicToken (ERC20Basic)

- [Pub] transfer #
- [Pub] balanceOf

+ERC20 (ERC20Basic)

- [Pub] allowance
- [Pub] transferFrom #
- [Pub] approve #

+StandardToken (ERC20, BasicToken)

- [Pub] transfer #
- [Pub] transferFrom #
- [Pub] approve #
- [Pub] allowance
- [Pub] increaseApproval #
- [Pub] decreaseApproval #

+MintableToken (StandardToken, Ownable)

- [Pub] mint #
- modifiers: onlyOwner, canMint
- [Pub] finishMinting #
- modifiers: onlyOwner, canMint

+CappedToken (MintableToken)

- [Pub] CappedToken
- [Pub] mint #
- modifiers: onlyOwner

Contract functions details

+Pausable (Ownable)

-[Pub] pause #

-modifiers: onlyOwner, whenNotPaused

-[Pub] unpause #

-modifiers: onlyOwner, whenPaused

+PausableToken (StandardToken, Pausable)

-[Pub] transfer #

-modifiers: whenNotPaused

-[Pub] transferFrom #

-modifiers: whenNotPaused

-[Pub] approve #

-modifiers: whenNotPaused

-[Pub] increaseApproval #

-modifiers: whenNotPaused

-[Pub] decreaseApproval #

-modifiers: whenNotPaused

+BlockportToken (CappedToken, PausableToken)

-BlockportToken #

(\$) = payable function

= non-constant function

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Low issue
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	Low issue

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 issue found.

✔ Low Severity Issues

Two low severity issue found

1. Unlocked Compiler Version.

• Description

The contract utilizes an unlocked compiler version. An unlocked compiler version in the contract's source code permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to differing compiler version numbers. This can lead to ambiguity when debugging as compiler-specific bugs may occur in the codebase that would be difficult to identify over a span of multiple compiler versions rather than a specific one.

• Recommendation

It is advisable that the compiler version is alternatively locked at the lowest version possible so that the contract can be compiled. For example, for version ^0.4.13 the contract should contain the following line:

```
pragma solidity 0.4.19;
```

2. Old compiler version

• Description

Contract has been deployed using too old solidity version.

• Recommendation

It is advisable to deploy contract using any of the latest version of solidity.

Centralization

Owner privileges :

- Blockport Contract:
 - Owner can transfer ownership.
 - Owner can mint.
 - Owner can finish minting.
 - Owner can pause/unpause transfer

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, as smart contract ownership has not been renounced. Following are Admin functions:

- transferOwnership
- mint
- finishMinting
- pause
- unpause

Conclusion

Smart contract contains 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.