



Smart Contract Security Audit Report

Pareto Network Token

April 2022

Security Status



www.hacksafe.io



Audit Details



Audited project

Pareto Network Token



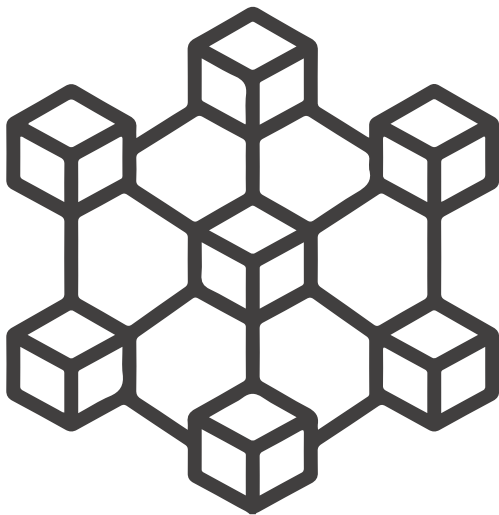
Deployer address

0xc45e9c64eee1F987F9a5B7A8E0Ad1f760dEFa7d8



Client contacts

Pareto Network Token team



Blockchain

Binance smart chain



Website

Not Provided by Pareto Network Token team

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.

Background

HeckSafe was commissioned by Pareto Network Token to perform an audit of smart contracts:

- <https://bscscan.com/address/0xea5f88e54d982cbb0c441cde4e79bc305e5b43bc#code>

Contract Details

Token contract details for 18.04.2022

Contract name	: Pareto Network Token
Contract address	: 0xea5f88e54d982cbb0c441cde4e79bc305e5b43bc
Total supply	: 500 Million
Token Ticker	: PARETO
Decimals	: 18
Token Holders	: 21,376
Transactions count	: 56,697
Contract deployer address	: 0xc45e9c64eee1F987F9a5B7A8E0Ad1f760dEFa7d8
Owner address	: 0x005d85FE4fcf44C95190Cad3c1bbDA242A62EEB2

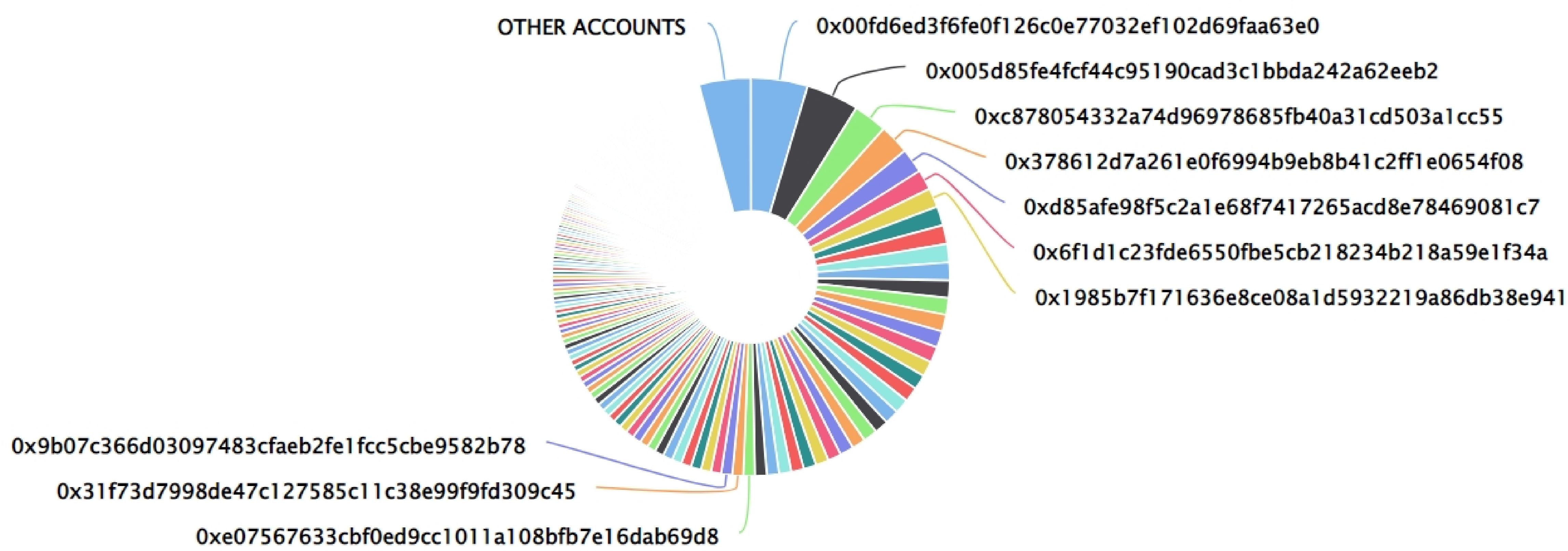
Pareto Network Token Distribution

The top 500 holders collectively own 95.79% (478,957,038.88 Tokens) of Pareto Network Token

Token Total Supply: 500,000,000.00 Token | Total Token Holders: 21,376

Pareto Network Token Top 500 Token Holders

Source: Etherscan.io



Pareto Network Top 10 Token Holders

(A total of 119,243,895.06 tokens held by the top 10 accounts from the total supply of 500,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x00fd6ed3f6fe0f126c0e77032ef102d69faa63e0	23,079,377.102389112952431101	4.6159%
2	0x005d85fe4fcf44c95190cad3c1bbda242a62eeb2	21,370,500.584483830344269	4.2741%
3	0xc878054332a74d96978685fb40a31cd503a1cc55	13,769,984.37441915	2.7540%
4	0x378612d7a261e0f6994b9eb8b41c2ff1e0654f08	12,208,520.692722254464978417	2.4417%
5	0xd85afe98f5c2a1e68f7417265acd8e78469081c7	10,000,000	2.0000%
6	0x6f1d1c23fde6550fbe5cb218234b218a59e1f34a	8,117,965.2841	1.6236%
7	0x1985b7f171636e8ce08a1d5932219a86db38e941	7,823,416.5	1.5647%
8	0x107d956a274b8401cf5c7eb89a283ceb59ffb012	7,785,561.524	1.5571%
9	0x9e0456a256b094eee86566586baa062d1c166962	7,600,000	1.5200%
10	0x29edfa2a8d6375089953728a150d9e9f22f7b1c5	7,488,568.998	1.4977%

Contract functions details

+ [Lib] SafeMath

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

+ ERC20Basic

- [Pub] totalSupply
- [Pub] balanceOf
- [Pub] transfer #

+ BasicToken (ERC20Basic)

- [Pub] totalSupply
- [Pub] transfer #
- [Pub] balanceOf

+ ERC20 (ERC20Basic)

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

+ StandardToken (ERC20, BasicToken)

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

+ Ownable (Context)

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

+ HasNoEther (Ownable)

- [Pub] HasNoEther \$
- [Ext] reclaimEther
- modifiers: onlyOwner

Contract functions details

+ Claimable (Ownable)

- [Pub] transferOwnership
 - modifiers: onlyOwner
- [Pub] claimOwnership
 - modifiers: onlyPendingOwner

+ Pausable (Ownable)

- [Pub] pause #
 - modifiers: onlyOwner, whenNotPaused
- [Pub] unpause #
 - modifiers: onlyOwner whenPaused

+ ParetoNetworkToken (StandardToken, HasNoEther, Claimable)

- [Pub] ParetoNetworkToken #
- [Pub] name
- [Pub] symbol
- [Pub] decimals
- [pub] isToken

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

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 issues found.

Owner Privileges

Owner Privileges (in the period when the owner is not renounced) :

- Pareto Network Token CHAIN Contract:
 - Owner can transfer ownership.
 - Owner can reclaim ethers.
 - Owner can claim ownership.

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.