HackSafe

Smart Contract Security Audit Report

ONE PIECE

February 2023

Security Status

★★★★½

www.hacksafe.io

Audit Details

Audited project
ONE PIECE

Deployer address
0xcd5db548d54b515d6af46b884e40a71a0ba1b60c

Client contacts
ONE PIECE 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 ONE PIECE to perform an audit of smart contracts:

- https://etherscan.io/token/0xf40eDF22e4aB146a32eCD8d659Cedc7A2a55Cd43#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.

Contract Details

Token contract details for 03.02.2023

Token Type	: DEFI
Contract name	: ONEPIECE
Contract address	: 0xf40eDF22e4aB146a32eCD8d659Cedc7A2a55Cd43
Total supply	: 1,000,000,000,000,000
Token ticker	: ONEPIECE
Decimals	: 9
Token Holders	: 1,302
Transactions count	: 7,482
Compiler version	: v0.8.4+commit.c7e474f2
Contract deployer address	: 0xcd5db548d54b515d6af46b884e40a71a0ba1b60c
Owner address	: 0x0000000000000000000000000000000000000000

Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are **“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.

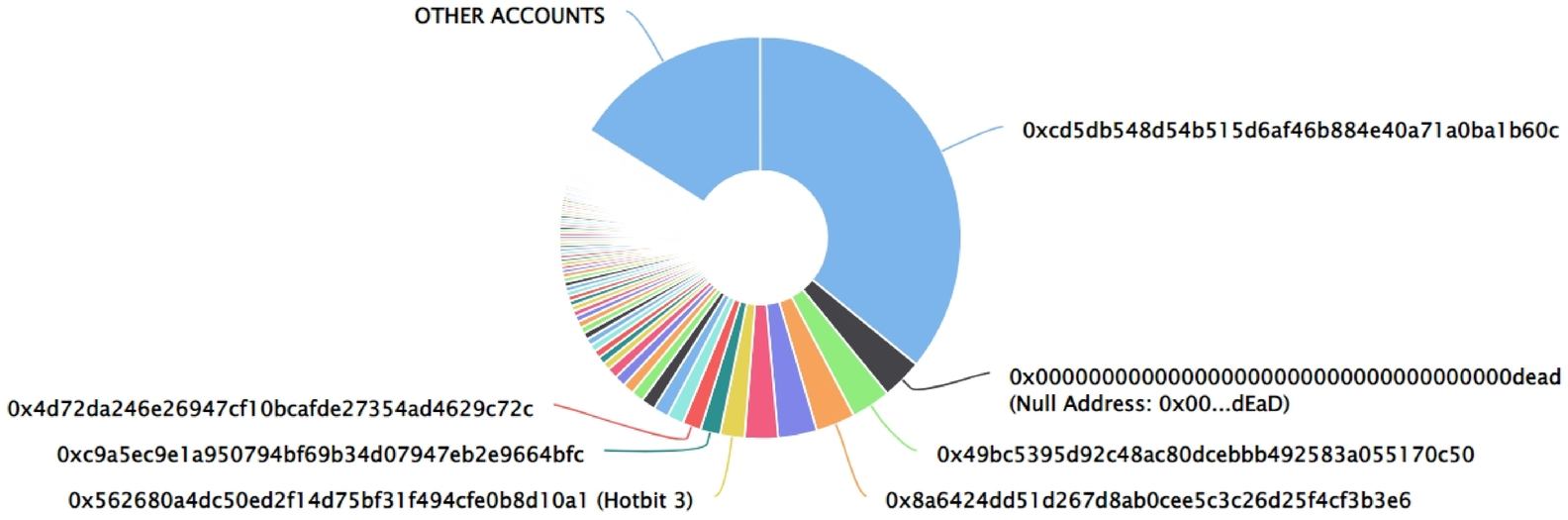
ONE PIECE Token Distribution

The top 100 holders collectively own 83.94% (839,393,183,751,263.00 Tokens) of ONE PIECE

Token Total Supply: 1,000,000,000,000,000.00 Token | Total Token Holders: 1,302

ONE PIECE Top 100 Token Holders

Source: Etherscan.io



ONE PIECE Top 20 Token Holders

(A total of 839,393,183,751,263.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0xcd5db548d54b515d6af46b884e40a71a0ba1b60c	358,618,398,214,369.439202762	35.8618%
2	Null Address: 0x00...dEaD	32,581,025,430,304.448149559	3.2581%
3	0x49bc5395d92c48ac80dcebbb492583a055170c50	31,739,706,064,434.620813804	3.1740%
4	0x8a6424dd51d267d8ab0cee5c3c26d25f4cf3b3e6	31,739,706,064,434.620813804	3.1740%
5	0xe98b7afe07e1dd34798ce378f5ec281c27c73e4f	31,257,142,811,829.203132575	3.1257%
6	0xb90294a8569cbe0085f70e2591cd72876e6dbd56	26,700,000,000,000	2.6700%
7	Hotbit 3	19,726,823,363,993.611409601	1.9727%
8	0xc9a5ec9e1a950794bf69b34d07947eb2e9664bfc	15,921,210,000,000.000093483	1.5921%
9	0x4d72da246e26947cf10bcafde27354ad4629c72c	14,991,005,546,228.990002931	1.4991%
10	0x76213f194e9df453d59b5b78cc25e208df09e417	13,216,591,835,766.169845913	1.3217%
11	0x98af10fe78b43f0373ec83ebc1309955db445b35	12,361,566,000,000.089057919	1.2362%
12	0xfbdeb87969f5610d006d1a4ed79308a5778e77e5	11,346,169,613,835.35474145	1.1346%
13	0x05ea36f3bd174aab40602a766ece2d4d888a642f	9,764,682,508,027.831774894	0.9765%
14	0xf0b00ea72a3e62d9fbaf8cb5dcdb7bf5dabc1dc8	9,117,300,619,039.955960153	0.9117%
15	0x1714059468716922595 0c8b48d8efb3f5d8344c1	8,950,000,000,000	0.8950%
16	0x02244727bbfcc3ebb44ced3c9bc73bb8afc4e6d8	8,352,974,638,321.384845919	0.8353%
17	0xd10d69381d14452c620316a571070959f0c91bc5	6,143,020,666,668.674706861	0.6143%
18	0x46b0d5b8cf3225b25a737f519780488c193a1974	6,000,344,400,000	0.6000%
19	0xf5b37c4ce053dd6e5d8507f298b3beec660a4d69	5,815,447,351,711.196362119	0.5815%
20	0xdbebf725b8734bec869c7ccec85cd90ec05c151f	5,793,900,000,000.000008749	0.5794%

ONE PIECE Token Distribution

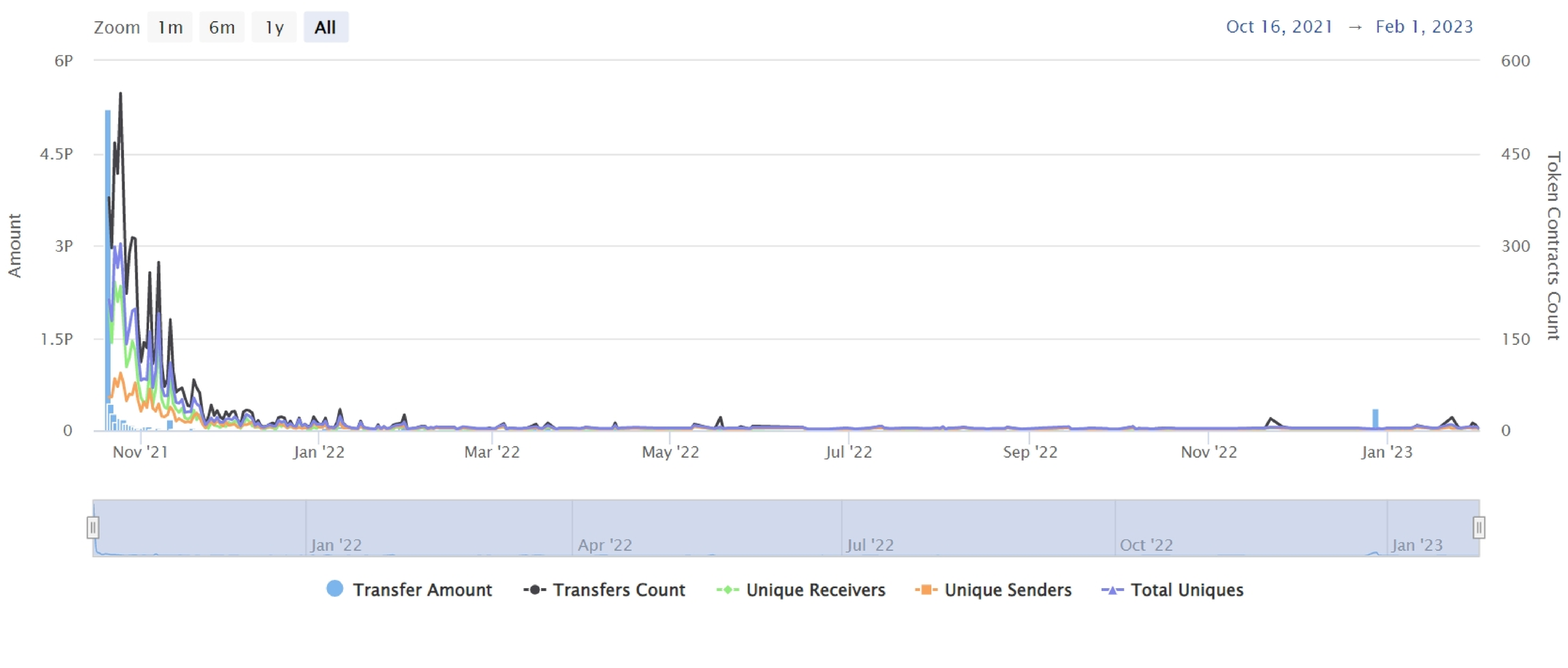
ONE PIECE Contract overview

Time Series: Token Contract Overview

Thu 21, Oct 2021 - Wed 1, Feb 2023

Token Contract 0xf40eDF22e4aB146a32eCD8d659Cedc7A2a55Cd43 (ONE PIECE)

Source: Etherscan.io



Contract functions details

+Context
    -[Int] _msgSender

+[Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer #
    -[Ext] allowance
    -[Ext] approve #
    -[Ext] transferFrom #

+[Lib] SafeMath
    -[Int] add
    -[Int] sub
    -[Int] sub
    -[Int] mul
    -[Int] div
    -[Int] div

+Ownable (Context)
    - [Pub] <Constructor> #
    - [Pub] owner
    - [Pub] renounceOwnership #
      - modifiers: onlyOwner

+ [Int] IUniswapV2Factory
    -[Ext] createPair #

+ [Int] IUniswapV2Router02
    -[Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
    -[Ext] factory
    -[Ext] WETH
    -[Ext] addLiquidityETH ($)

+ONEPIECE (Context, IERC20, Ownable)
    - [Pub] <Constructor>#
    - [Pub] name
    - [Pub] symbol
    - [Pub] decimals
    - [Pub] totalSupply
    - [Pub] balanceOf
    - [Pub] transfer #

Contract functions details

- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Ext] setCooldownEnabled #
  - modifiers: onlyOwner
- [Pvt] tokenFromReflection
- [Pvt] _approve #
- [Pvt] _transfer #
- [Pvt] swapTokensForEth #
  - modifiers: lockTheSwap
- [Pvt] sendETHToFee #
- [Ext] openTrading #
  - modifiers: onlyOwner
- [Pub] setBots #
  - modifiers: onlyOwner
- [Pub] delBot #
  - modifiers: onlyOwner
- [Pvt] _tokenTransfer #
- [Pvt] _transferStandard #
- [Pvt] _takeTeam #
- [Pvt] _reflectFee #
- [Ext] <Fallback > ($)
- [Ext] manualswap #
- [Ext] manualsend #
- [Pvt] _getValues
- [Pvt] _getTValues
- [Pvt] _getRValues
- [Pvt] _getRate
- [Pvt] _getCurrentSupply

($) = payable function
= non-constant function

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

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**
  No low severity issue found.

Centralization

Owner Privileges

- ONE PIECE Coin Contract:
    - Owner can enable cooldown (user to user trading with time offset).
    - Owner can open swap trading.
    - Owner can add and remove bots (no transferring between this addresses).

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 not create trouble, as smart contract ownership has been renounced.

Conclusion

Smart contract contains no medium 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.