



TechRate

AUDIT COMPANY

Smart Contract Security Audit

Audit Details



Audited project

ONE PIECE



Deployer address

0xcd5db548d54b515d6af46b884e40a71a0ba1b60c



Client contacts:

ONE PIECE team



Blockchain

Ethereum



Project 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.

Background

TechRate was commissioned by ONE PIECE to perform an audit of smart contracts:

<https://etherscan.io/address/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 used 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.

Contracts Details

Token contract details for 28.10.2021

Contract name	ONE PIECE
Contract address	0xf40eDF22e4aB146a32eCD8d659Cedc7A2a55Cd43
Total supply	1,000,000,000,000,000
Token ticker	ONEPIECE
Decimals	9
Token holders	829
Transactions count	2,825
Top 100 holders dominance	76.98%
Contract deployer address	0xcd5db548d54b515d6af46b884e40a71a0ba1b60c
Contract's current owner address	0x00

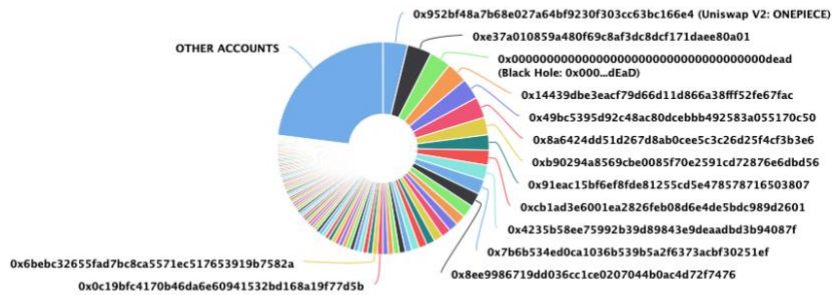
ONE PIECE Token Distribution

The top 100 holders collectively own 76.98% (769,797,497,452,880.00 Tokens) of ONE PIECE

Token Total Supply: 1,000,000,000,000.00 Token | Total Token Holders: 829

ONE PIECE Top 100 Token Holders

Source: Etherscan.io



(A total of 769,797,497,452,880.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000.00 token)

ONE PIECE Contract Interaction Details

Time Series: Token Contract Overview

Thu 21, Oct 2021 - Wed 27, Oct 2021

Token Contract 0xf40edf22e4ab146a32ecd8d659cedc7a2a55cd43 (ONE PIECE)

Source: Etherscan.io



ONE PIECE Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Uniswap V2: ONEPIECE	37,733,575,317,061.330792004	3.7734%
2	0xe37a010859a480f69c8af3dc8dcf171daee80a01	37,246,502,092,255.675578762	3.7247%
3	Black Hole: 0x000...dEaD	32,581,025,430,304.448149559	3.2581%
4	0x14439dbe3eacf79d66d11d866a38fff52fe67fac	31,987,312,000,000.89	3.1987%
5	0x49bc5395d92c48ac80dcebb492583a055170c50	31,739,706,064,434.620813804	3.1740%
6	0x8a6424dd51d267d8ab0cee5c3c26d25f4cf3b3e6	31,739,706,064,434.620813804	3.1740%
7	0xb90294a8569cbe0085f70e2591cd72876e6dbd56	26,700,000,000,000	2.6700%
8	0x91eac15bf6ef8fde81255cd5e478578716503807	23,251,518,463,152	2.3252%
9	0xcb1ad3e6001ea2826feb08d6e4de5bdc989d2601	22,916,328,419,132.769167636	2.2916%
10	0x4235b58ee75992b39d89843e9deaadb3b94087f	22,801,871,999,996.89	2.2802%

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 #
- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Ext] setCooldownEnabled #
 - modifiers: onlyOwner
- [Prv] tokenFromReflection
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] swapTokensForEth #

- modifiers: lockTheSwap
- [Prv] sendETHToFee #
- [Ext] openTrading #
 - modifiers: onlyOwner
- [Pub] setBots #
 - modifiers: onlyOwner
- [Pub] delBot #
 - modifiers: onlyOwner
- [Prv] _tokenTransfer #
- [Prv] _transferStandard #
- [Prv] _takeTeam #
- [Prv] _reflectFee #
- [Ext] <Fallback> (\$)
- [Ext] manualswap #
- [Ext] manualsend #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply

(\$) = payable function

= non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	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. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

Security Issues

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No medium severity issues found.

✓ Low Severity Issues

No low severity issues found.

Owner privileges (In the period when the owner is not renounced)

- Owner can enable cooldown (user to user trading with time offset).

```
function setCooldownEnabled(bool onoff) external onlyOwner() {
    cooldownEnabled = onoff;
}
```

- Owner can open swap trading.

```
function openTrading() external onlyOwner() {
    require(!tradingOpen, "trading is already open");
    IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(0x7a250d5630B4cF539739dF2C5dAcb4c659F2488D);
    uniswapV2Router = _uniswapV2Router;
    _approve(address(this), address(uniswapV2Router), _tTotal);
    uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory()).createPair(address(this), _uniswapV2Router.WETH());
    uniswapV2Router.addLiquidityETH(value: address(this).balance)(address(this), balanceOf(address(this)), 0, 0, owner(), block.timestamp);
    swapEnabled = true;
    cooldownEnabled = true;
    _maxTxAmount = 50000000000000 * 10**9;
    tradingOpen = true;
    IERC20(uniswapV2Pair).approve(address(uniswapV2Router), type(uint).max);
}
```

- Owner can add and remove bots (no transferring between this addresses).

```
function setBots(address[] memory bots) public onlyOwner {
    for (uint i = 0; i < bots.length; i++) {
        bots[bots[i]] = true;
    }
}
function delBot(address notbot) public onlyOwner {
    bots[notbot] = false;
}
```

Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details are NOT provided by the team.

TechRate 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.



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