



Smart Contract Security Audit

TechRate
June, 2021

Audit Details



Audited project

One Token



Deployer address

0x4C2d08aa7207D5338983bD2010fd1DcA285c01C0



Client contacts:

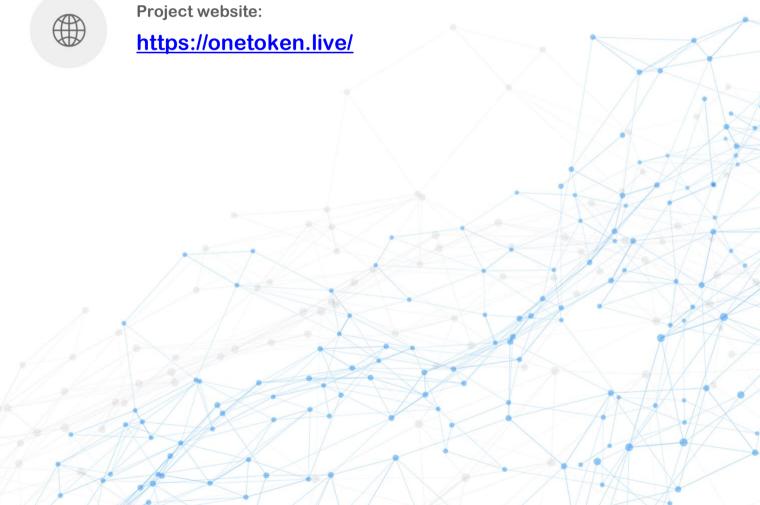
One Token team



Blockchain

Binance Smart Chain





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 Token to perform an audit of smart contracts:

https://bscscan.com/address/0x01eaedd1BC5F8198D174532Aa13BA150653E0E11#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.

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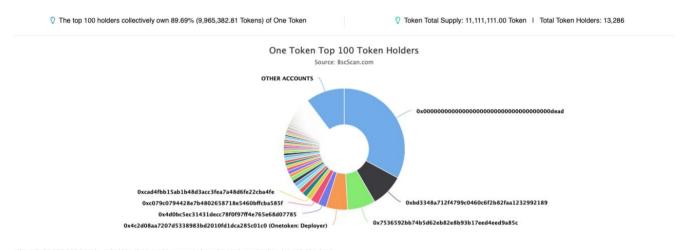
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Contracts Details

Token contract details for 05.06.2021

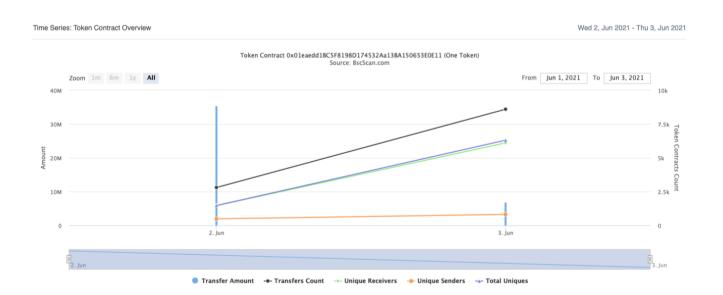
Contract name	One Token
Contract address	0x01eaedd1BC5F8198D174532Aa13BA150653E0E11
Total supply	11,111,111
Token ticker	ONE
Decimals	9
Token holders	13,286
Transactions count	19,589
Top 100 holders dominance	89.69%
Liquidity fee	4
Tax fee	4
Total fees	1011516209486950
Uniswap V2 pair	0xbd3348a712f4799c0460c6f2b82faa1232992189
Contract deployer address	0x4C2d08aa7207D5338983bD2010fd1DcA285c01C0
Contract's current owner address	0x000000000000000000000000000000000000

One Token Token Distribution



(A total of 9,965,382.81 tokens held by the top 100 accounts from the total supply of 11,111,111.00 token)

One Token Contract Interaction Details



One Token Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	0x000000000000000000000000000000000000	3,650,468.642840524	32.8542%
2		976,124.434044966	8.7851%
3	₫ 0x7536592bb74b5d62eb82e8b93b17eed4eed9a85c	831,755.652566706	7.4858%
4	Onetoken: Deployer	640,138.147321784	5.7612%
5	0x4d0bc5ec31431decc78f0f97ff4e765e68d07785	250,012.379446204	2.2501%
6	0xc079c0794428e7b4802658718e5460bffcba585f	241,156.607583208	2.1704%
7	0xcad4fbb15ab1b48d3acc3fea7a48d6fe22cba4fe	157,276.65137957	1.4155%
8	0xe2f41149ba6a582c85e46235041a0af308256e6b	156,647.291331393	1.4098%
9	0xaf4cc8122059ff0802524061f1092d9f82ae1b16	134,662.012091883	1.2120%
10	0xd0fb2f67e176faa1752b32fc3da24f4778fa13c7	113,778.202511951	1.0240%

One Token LP Token Holders

Rank	Address	Quantity	Percentage
1		0.408478883540889599	70.9597%
2	ⓑ 0x00000000000000000000000000000000000	0.149463789114387813	25.9644%
3	Onetoken: Deployer	0.009542788558977931	1.6577%
4	0x07d80ae6f36a5e08dca74ce884a24d39db9934ed	0.006940505699152008	1.2057%
5	0xa1be60a3dd728c15004344ace9039dae426a707b	0.001162570973021859	0.2020%
6	0x78dc97268e579888544b7e202a9ccd6fe5878234	0.000060277584132281	0.0105%

Contract functions details

+ [Int] IERC20 - [Ext] totalSupply - [Ext] balanceOf - [Ext] transfer # - [Ext] allowance - [Ext] approve # - [Ext] transferFrom # + [Lib] SafeMath - [Int] tryAdd - [Int] trySub - [Int] tryMul - [Int] tryDiv - [Int] tryMod - [Int] add - [Int] sub - [Int] mul - [Int] div - [Int] mod - [Int] sub - [Int] div - [Int] mod + Context - [Int] _msgSender - [Int] _msgData + [Lib] Address - [Int] isContract - [Int] sendValue # - [Int] functionCall # - [Int] functionCall # - [Int] functionCallWithValue # - [Int] functionCallWithValue # - [Int] functionStaticCall - [Int] functionStaticCall - [Int] functionDelegateCall # - [Int] functionDelegateCall # - [Prv] verifyCallResult + Ownable (Context) - [Pub] <Constructor> # - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlyOwner - [Pub] transferOwnership

+ [Int] IUniswapV2Factory

- modifiers: onlyOwner

- [Ext] feeTo
- [Ext] feeToSetter

- [Ext] getPair
- [Ext] allPairs
- [Ext] allPairsLength
- [Ext] createPair #
- [Ext] setFeeTo #
- [Ext] setFeeToSetter #

+ [Int] IUniswapV2Pair

- [Ext] name
- [Ext] symbol
- [Ext] decimals
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] allowance
- [Ext] approve #
- [Ext] transfer #
- [Ext] transferFrom #
- [Ext] DOMAIN_SEPARATOR
- [Ext] PERMIT TYPEHASH
- [Ext] nonces
- [Ext] permit#
- [Ext] MINIMUM_LIQUIDITY
- [Ext] factory
- [Ext] token0
- [Ext] token1
- [Ext] getReserves
- [Ext] price0CumulativeLast
- [Ext] price1CumulativeLast
- [Ext] kLast
- [Ext] mint #
- [Ext] burn #
- [Ext] swap #
- [Ext] skim #
- [Ext] sync #
- [Ext] initialize #

+ [Int] IUniswapV2Router01

- [Ext] factory
- [Ext] WETH
- [Ext] addLiquidity #
- [Ext] addLiquidityETH (\$)
- [Ext] removeLiquidity #
- [Ext] removeLiquidityETH #
- [Ext] removeLiquidityWithPermit #
- [Ext] removeLiquidityETHWithPermit #
- [Ext] swapExactTokensForTokens #
- [Ext] swapTokensForExactTokens #
- [Ext] swapExactETHForTokens (\$)
- [Ext] swapTokensForExactETH #
- [Ext] swapExactTokensForETH #
- [Ext] swapETHForExactTokens (\$)
- [Ext] quote
- [Ext] getAmountOut
- [Ext] getAmountIn
- [Ext] getAmountsOut

- [Ext] getAmountsIn + [Int] IUniswapV2Router02 (IUniswapV2Router01) - [Ext] removeLiquidityETHSupportingFeeOnTransferTokens # - [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens # - [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens # - [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$) - [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens # + OneToken (Context, IERC20, Ownable) - [Pub] <Constructor> # - [Pub] name - [Pub] symbol - [Pub] decimals - [Pub] totalSupply - [Pub] balanceOf - [Pub] transfer # - [Pub] allowance - [Pub] approve # - [Pub] transferFrom # - [Pub] increaseAllowance # - [Pub] decreaseAllowance # - [Pub] isExcludedFromReward - [Pub] totalFees - [Pub] deliver # - [Pub] reflectionFromToken - [Pub] tokenFromReflection - [Pub] excludeFromReward # - modifiers: onlyOwner - [Ext] includeInReward # - modifiers: onlyOwner - [Prv] transferBothExcluded # - [Pub] setMktAddress # - modifiers: onlyOwner - [Pub] excludeFromFee # - modifiers: onlyOwner - [Pub] includeInFee # - modifiers: onlyOwner - [Ext] setTaxFeePercent # - modifiers: onlyOwner - [Ext] setMktFeePercent # - modifiers: onlvOwner - [Ext] setLiquidityFeePercent # - modifiers: onlyOwner - [Ext] setMaxTxPercent # - modifiers: onlvOwner - [Pub] setSwapAndLiquifyEnabled

- modifiers: onlyOwner
- [Ext] setMaxTxPercent #
- modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnab
- modifiers: onlyOwner
- [Ext] <Fallback> (\$)
- [Prv] _reflectFee #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] _getRate
- [Prv] _getCurrentSupply

- [Prv] _takeLiquidity #
- [Prv] _takeMkt #
- [Prv] calculateTaxFee
- [Prv] calculateMktFee
- [Prv] calculateLiquidityFee
- [Prv] removeAllFee #
- [Prv] restoreAllFee #
- [Pub] isExcludedFromFee
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] swapAndLiquify #
- modifiers: lockTheSwap
- [Prv] swapTokensForEth#
- [Prv] addLiquidity #
- [Prv] _tokenTransfer #
- [Prv] _transferStandard #
- [Prv] _transferToExcluded #
- [Prv] _transferFromExcluded #
- (\$) = 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.	Low issues
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
 - 1. Out of gas

Issue:

 The function includeInReward() uses the loop to find and remove addresses from the _excluded list. Function will be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

```
function includeInReward(address account ) external onlyOwner() {
    require(_isExcluded[account ], "Account is already excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account ) {
            excluded[i] = [excluded.length - 1];
            tOwned[account ] = 0;
            isExcluded[account ] = false;
            excluded.pop();
            break;
    }
}</pre>
```

 The function _getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

Recommendation:

Check that the excluded array length is not too big.

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

Owner can change the tax, marketing and liquidity fee.

Owner can change the maximum transaction amount.

• Owner can exclude from the fee.

```
function excludeFromFee(address account1) public onlyOwner {
    _isExcludedFromFee[account1] = true;
}
```

Owner can change marketing address.

Conclusion

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

Liquidity locking details provided by the team:

https://team.finance/view-

coin/0x01eaedd1BC5F8198D174532Aa13BA150653E0E11?name=O ne%20Token&symbol=ONE

Ownership renounce details provided by the team:

https://bscscan.com/tx/0xeaa857e6d8697c11f46b379f3c5cccb70ee 59bcd213030f2627c73bd66bacd1a

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.

