



TechRate
AUDIT COMPANY

Smart Contract Security Audit

Audit Details



Audited project

TOKE.N



Deployer address

0xcf5fb7da3a6c619293fd1932adb01c653e434029



Client contacts:

TOKE.N team



Blockchain

Binance Smart Chain



Project website:

<https://thetokenproject.org/>

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 TOKE.N to perform an audit of smart contracts:

<https://bscscan.com/address/0xf8d4ccd333f893fc1ad75b626a2c82b4bc7ccbdd#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 16.01.2022

Contract name	TOKE.N
Contract address	0xF8D4ccd333F893FC1Ad75B626a2C82B4BC7Ccbd
Total supply	992,348,490,439.801243
Token ticker	TOKE.N
Decimals	9
Token holders	1,604
Transactions count	4,753
Top 100 holders dominance	73.14%
Balance limit divider	50
Sell limit	5000000000000000000
Max buy lock time	9
Team wallet	0x2e0ff83a64373e13179e307523fbe3d08e04a4d8
Contract deployer address	0xcf5fb7da3a6c619293fd1932adb01c653e434029
Contract's current owner address	0xcf5fb7da3a6c619293fd1932adb01c653e434029

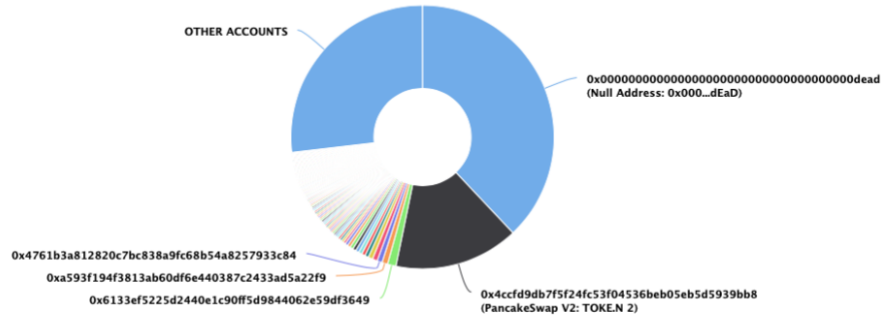
TOKE.N Token Distribution

The top 100 holders collectively own 73.14% (725,846,506,293.71 Tokens) of TOKE.N

Token Total Supply: 992,348,490,439.80 Token | Total Token Holders: 1,604

TOKE.N Top 100 Token Holders

Source: BscScan.com



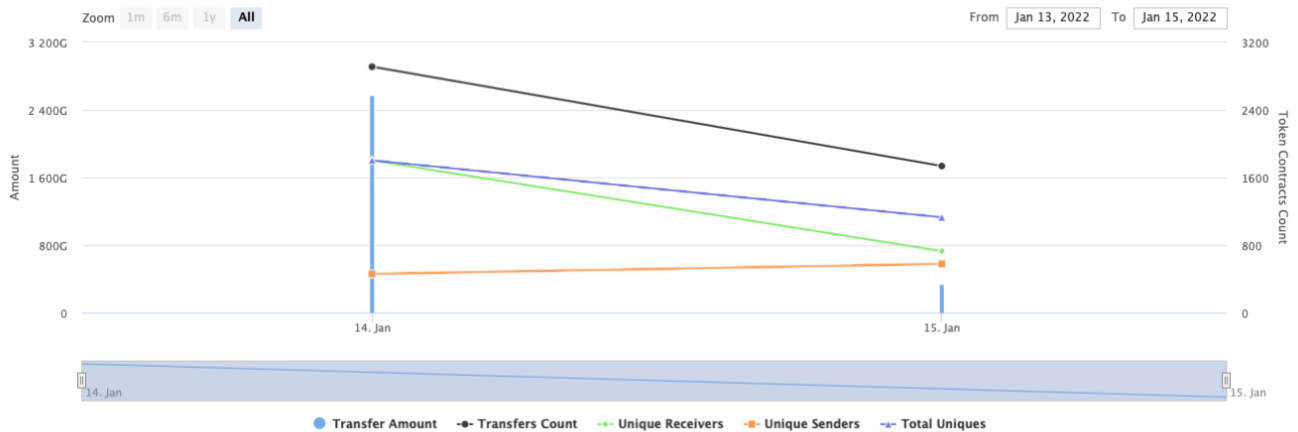
(A total of 725,846,506,293.71 tokens held by the top 100 accounts from the total supply of 992,348,490,439.80 token)

TOKE.N Contract Interaction Details

Time Series: Token Contract Overview

Fri 14, Jan 2022 - Sat 15, Jan 2022

Token Contract 0xf8d4ccd333f893fc1ad75b626a2c82b4bc7ccbdd (TOKE.N)
Source: BscScan.com



TOKE.N Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Null Address: 0x000...dEaD	376,638,006,525.5075	37.9542%
2	📄 PancakeSwap V2: TOKE.N 2	151,785,032,343.214350835	15.2955%
3	0x6133ef5225d2440e1c90ff5d9844062e59df3649	10,196,071,494.033447256	1.0275%
4	0xa593f194f3813ab60df6e440387c2433ad5a22f9	7,057,221,253.476012094	0.7112%
5	0x4761b3a812820c7bc838a9fc68b54a8257933c84	6,140,541,507.311025052	0.6188%
6	0xcd218d2ff8c0fd9fd565b2e3d13976aff56f7709	5,941,577,182.791822215	0.5987%
7	0x56e6d29067e1cbb9a5558e1ebd962da0da9046a4	5,500,323,779.799150991	0.5543%
8	0xe1ff7c3a0ca9753b606808a81fcee92ad1f3c796	4,469,857,306.283129124	0.4504%
9	0x7bab7d64fdb740ab30d582581ac132740aa7a8fe	4,309,113,952.228685381	0.4342%
10	0x802ab638a70ccdd0cebd5dd1a6477ce859041a97	4,239,673,392.327122901	0.4272%



Contract functions details

+ [Int] IBEP20

- [Ext] totalSupply
- [Ext] decimals
- [Ext] symbol
- [Ext] name
- [Ext] getOwner
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Ext] transferFrom #

+ [Int] IPancakeERC20

- [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 #

+ [Int] IPancakeFactory

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

+ [Int] IPancakeRouter01

- [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] factory
- [Ext] WETH

- [Ext] quote
- [Ext] getamountOut
- [Ext] getamountIn
- [Ext] getamountsOut
- [Ext] getamountsIn

+ [Int] IPancakeRouter02 (IPancakeRouter01)

- [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
- [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #
- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #

+ Ownable

- [Pub] <Constructor> #
- [Pub] owner
- [Ext] renounceOwnership #
 - modifiers: onlyOwner
- [Ext] transferOwnership #
 - modifiers: onlyOwner

+ [Lib] Address

- [Int] isContract
- [Int] sendValue #
- [Int] functionCall #
- [Int] functionCall #
- [Int] functionCallWithValue #
- [Int] functionCallWithValue #
- [Int] functionStaticCall
- [Int] functionStaticCall
- [Int] functionDelegateCall #
- [Int] functionDelegateCall #
- [Prv] _verifyCallResult

+ [Lib] EnumerableSet

- [Prv] _add #
- [Prv] _remove #
- [Prv] _contains
- [Prv] _length
- [Prv] _at
- [Int] add #
- [Int] remove #
- [Int] contains
- [Int] length
- [Int] at
- [Int] add #
- [Int] remove #
- [Int] contains
- [Int] length
- [Int] at
- [Int] add #
- [Int] remove #
- [Int] contains
- [Int] length
- [Int] at

+ **TOKEN** (IBEP20, Ownable)

- **[Pub]** <Constructor> #
- **[Prv]** _transfer #
- **[Prv]** _taxedTransfer #
- **[Prv]** _feelessTransfer #
- **[Prv]** _calculateFee
- **[Prv]** _addToken #
- **[Prv]** _removeToken #
- **[Prv]** _swapContractToken #
 - modifiers: lockTheSwap
- **[Prv]** _swapTokenForBNB #
- **[Prv]** _addLiquidity #
- **[Ext]** getLiquidityReleaseTimeInSeconds
- **[Ext]** getBurnedTokens
- **[Ext]** getLimits
- **[Ext]** getTaxes
- **[Ext]** getAddressBuyLockTimeInSeconds
- **[Ext]** getBuyLockTimeInSeconds
- **[Ext]** AddressResetBuyLock #
- **[Ext]** TeamWithdrawALLMarketingBNB #
 - modifiers: onlyOwner
- **[Ext]** TeamWithdrawXMarketingBNB #
 - modifiers: onlyOwner
- **[Ext]** TeamSwitchManualBNBConversion #
 - modifiers: onlyOwner
- **[Ext]** TeamChangeAntiWhale #
 - modifiers: onlyOwner
- **[Ext]** TeamChangeTeamWallet #
 - modifiers: onlyOwner
- **[Ext]** TeamChangeConstructionWallet #
 - modifiers: onlyOwner
- **[Ext]** TeamDisableBuyLock #
 - modifiers: onlyOwner
- **[Ext]** TeamSetBuyLockTime #
 - modifiers: onlyOwner
- **[Ext]** TeamUpdateAmountToSwap #
 - modifiers: onlyOwner
- **[Ext]** AddWalletExclusion #
 - modifiers: onlyOwner
- **[Ext]** TeamSetTaxes #
 - modifiers: onlyOwner
- **[Ext]** TeamCreateLPandBNB #
 - modifiers: onlyOwner
- **[Ext]** teamUpdatePancakeRouter #
 - modifiers: onlyOwner
- **[Ext]** TeamUpdateLimits #
 - modifiers: onlyOwner
- **[Ext]** SetupEnableTrading #
 - modifiers: onlyOwner
- **[Ext]** SetupLiquidityTokenAddress #
 - modifiers: onlyOwner
- **[Ext]** TeamProlongLiquidityLockInSeconds #
 - modifiers: onlyOwner
- **[Prv]** _prolongLiquidityLock #

- [Ext] TeamReleaseLiquidity #
 - modifiers: onlyOwner
- [Ext] TeamRemoveLiquidity #
 - modifiers: onlyOwner
- [Ext] TeamRemoveRemainingBNB #
 - modifiers: onlyOwner
- [Ext] <Fallback> (\$)
- [Ext] <Fallback> (\$)
- [Ext] getOwner
- [Ext] name
- [Ext] symbol
- [Ext] decimals
- [Ext] totalSupply
- [Ext] balanceOf
- [Ext] transfer #
- [Ext] allowance
- [Ext] approve #
- [Prv] _approve #
- [Ext] transferFrom #
- [Ext] increaseAllowance #
- [Ext] decreaseAllowance #

(\$) = 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.

Notes:

- marketingBalance calculated and withdrawn not in one to one proportion.

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

- Owner can withdraw marketing balance.
- Owner can disable auto call of _swapContractToken function.
- Owner can change antiWhale.
- Owner can change teamWallet and ConstructionWallet addresses.
- Owner can disable buy lock.
- Owner can change currentAmountToSwap.
- Owner can exclude addresses.
- Owner can change buy lock time.
- Owner can change taxes.
- Owner can manually call _swapContractToken function.
- Owner can change PancakeRouter address.
- Owner can change balance and sell limits.
- Owner can enable trading(already called).
- Owner can change liquidity token address.
- Owner can increase _liquidityUnlockTime.
- Owner can withdraw liquidity to team wallet if it is not locked.
- Owner can remove liquidity.
- Owner can withdraw contract balance if it is not locked.

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.