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**TechRate**

AUDIT COMPANY

# Smart Contract Security Audit

TechRate

August, 2021

# Audit Details



Audited project  
**Traders coin**



Deployer address  
**0x710f3bac5f83d5398761a7708c5870b3e78ebdfe**



Client contacts:  
**Contact@Trdctoken.com**



Blockchain  
**Binance Smart Chain**



Project website:  
**trdctoken.com**

# 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 Traders coin to perform an audit of smart contracts:

<https://bscscan.com/token/0x7e8db69dcff9209e486a100e611b0af300c3374e>

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 05.07.2021

Contract name	Traders coin
Contract address	0x7e8DB69dcff9209E486a100e611B0af300c3374e
Total supply	210,000,000
Token ticker	TRDC
Decimals	18
Token holders	3,116
Transactions count	14,451
Top 100 holders dominance	82.81%
Contract deployer address	0x710f3bac5f83d5398761a7708c5870b3e78ebdfe
Contract's current owner address	0x00

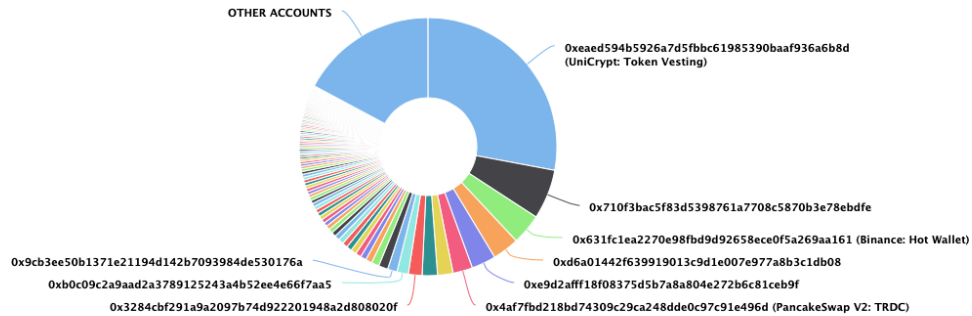
# Traders coin Token Distribution

The top 100 holders collectively own 82.81% (173,905,979.89 Tokens) of traders coin

Token Total Supply: 210,000,000.00 Token | Total Token Holders: 3,116

traders coin Top 100 Token Holders

Source: BscScan.com



(A total of 173,905,979.89 tokens held by the top 100 accounts from the total supply of 210,000,000.00 token)

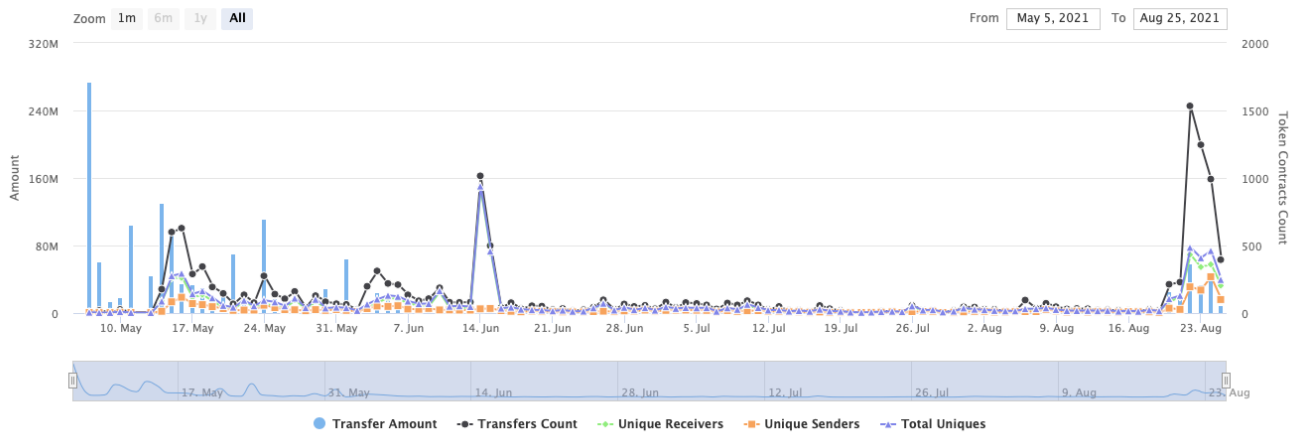
# Traders coin Contract Interaction Details

Time Series: Token Contract Overview



Fri 7, May 2021 - Wed 25, Aug 2021

Token Contract 0x7e8db69dcff9209e486a100e611b0af300c3374e (traders coin)

Source: BscScan.com



# Traders coin Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	 UniCrypt: Token Vesting	58,695,889.650508870298103991	27.9504%
2	<a href="#">0x710f3bac5f83d5398761a7708c5870b3e78ebdfe</a>	13,100,454.820478582817507651	6.2383%
3	Binance: Hot Wallet	8,029,010	3.8233%
4	<a href="#">0xd6a01442f639919013c9d1e007e977a8b3c1db08</a>	7,031,457.725298021453920579	3.3483%
5	<a href="#">0xe9d2afff18f08375d5b7a8a804e272b6c81ceb9f</a>	6,418,094.04330760708835051	3.0562%
6	 PancakeSwap V2: TRDC	5,178,846.003238957347819642	2.4661%
7	<a href="#">0x8108bbdb3140917a78b58a4d3f95b1f00a21ca9b</a>	4,083,260.504191185530154165	1.9444%
8	<a href="#">0x23af75fca855d9049f931ff2cf8f4d70da84cf52</a>	4,000,000	1.9048%
9	<a href="#">0x3284cbf291a9a2097b74d922201948a2d808020f</a>	3,602,881.531290811414360925	1.7157%
10	<a href="#">0xb0c09c2a9aad2a3789125243a4b52ee4e66f7aa5</a>	3,037,076.024209308411870902	1.4462%





# Contract functions details

- + Context
  - [Int] \_msgSender
  - [Int] \_msgData
- + Ownable (Context)
  - [Pub] <Constructor> #
  - [Pub] owner
  - [Pub] renounceOwnership #
    - modifiers: onlyOwner
  - [Pub] transferOwnership #
    - modifiers: onlyOwner
- + [Int] IBEP20
  - [Ext] name
  - [Ext] symbol
  - [Ext] decimals
  - [Ext] totalSupply
  - [Ext] balanceOf
  - [Ext] getOwner
  - [Ext] transfer #
  - [Ext] transferFrom #
  - [Ext] approve #
  - [Ext] allowance
- + BEP20 (Ownable, IBEP20)
  - [Pub] <Constructor> #
  - [Pub] name
  - [Pub] symbol
  - [Pub] decimals
  - [Pub] totalSupply
  - [Pub] balanceOf
  - [Pub] getOwner
  - [Pub] transfer #
  - [Pub] transferFrom #
  - [Pub] approve #
  - [Pub] allowance
  - [Pub] increaseAllowance #
  - [Pub] decreaseAllowance #
  - [Int] \_transfer #
  - [Int] \_mint #
  - [Int] \_burn #
  - [Int] \_approve #
  - [Int] \_setupDecimals #
  - [Int] \_beforeTokenTransfer #
- + BEP20Mintable (BEP20)
  - [Pub] mintingFinished
  - [Pub] mint #
    - modifiers: canMint
  - [Pub] finishMinting #
    - modifiers: canMint



- [Int] \_finishMinting #
- + BEP20Burnable (BEP20)
  - [Pub] burn #
  - [Pub] burnFrom #
- + [Int] IERC165
  - [Ext] supportsInterface
- + [Int] IBEP20Operable (IBEP20, IERC165)
  - [Ext] transferAndCall #
  - [Ext] transferAndCall #
  - [Ext] transferFromAndCall #
  - [Ext] transferFromAndCall #
  - [Ext] approveAndCall #
  - [Ext] approveAndCall #
- + [Int] IBEP20OperableReceiver
  - [Ext] onTransferReceived #
- + [Int] IBEP20OperableSpender
  - [Ext] onApprovalReceived #
- + [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] ERC165Checker
  - [Int] supportsERC165
  - [Int] supportsInterface
  - [Int] getSupportedInterfaces
  - [Int] supportsAllInterfaces
  - [Prv] \_supportsERC165Interface
- + ERC165 (IERC165)
  - [Pub] supportsInterface
- + BEP20Operable (BEP20, IBEP20Operable, ERC165)
  - [Pub] supportsInterface
  - [Pub] transferAndCall #
  - [Pub] transferAndCall #
  - [Pub] transferFromAndCall #
  - [Pub] transferFromAndCall #
  - [Pub] approveAndCall #
  - [Pub] approveAndCall #
  - [Int] \_checkAndCallTransfer #

- [Int] \_checkAndCallApprove #
- + TokenRecover (Ownable)
  - [Pub] recoverBEP20 #
  - modifiers: onlyOwner
- + [Int] IPayable
  - [Ext] pay (\$)
- + ServicePayer
  - [Pub] <Constructor> (\$)
- + AmazingBEP20 (BEP20Mintable, BEP20Burnable, BEP20Operable, TokenRecover, ServicePayer)
  - [Pub] <Constructor> (\$)
  - modifiers: BEP20,ServicePayer
  - [Int] \_mint #
  - modifiers: onlyOwner
  - [Int] \_finishMinting #
  - modifiers: onlyOwner

(\$) = 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 withdraw BEP20 tokens.

```
function recoverBEP20(address tokenAddress↑, uint256 tokenAmount↑) public onlyOwner {
    IBEP20(tokenAddress↑).transfer(owner(), tokenAmount↑);
}
```

- Owner can finish minting.

```
function finishMinting() public canMint {
    _finishMinting();
}

/**
 * @dev Function to stop minting new tokens.
 */
function _finishMinting() internal virtual {
    _mintingFinished = true;

    emit MintFinished();
}
```

- Owner can mint when minting is not finished.

```
function mint(address account↑, uint256 amount↑) public canMint {
    _mint(account↑, amount↑);
}
```

# 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 provided by the team:

Liquidity locked: 11.26%

<https://app.unicrypt.network/amm/pancake-v2/token/0x7e8DB69dcff9209E486a100e611B0af300c3374e>

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***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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