



Smart Contract Security Audit

Audit details:

Audited project:	COLLECTIBLE
Deployer address:	0xcC00632C6Dd13008A30949e33dB3169dfF1fb31E
Client contacts:	COLLECTIBLE team
Blockchain:	Binance Smart Chain
Project website:	www.collectible.global

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 COLLECTIBLE to perform an audit of smart contracts:

- <https://bscscan.com/address/0x4b2172e798572973b2e670678902d26d2e44c24a#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 22.05.2021.

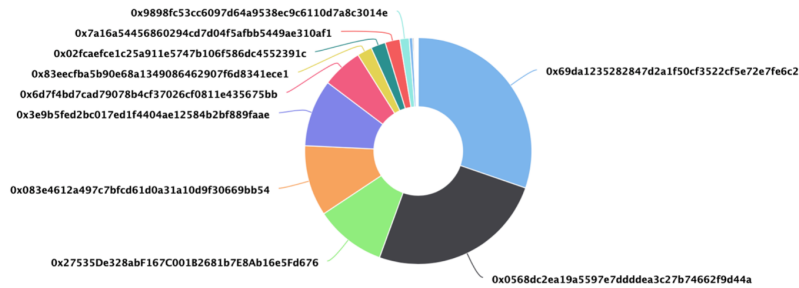
Contract name:	BTCD
Contract address:	0x4B2172E798572973B2e670678902d26D2e44C24A
Total supply:	11880000
Token ticker:	COLLT
Decimals:	0
Token holders:	464
Transactions count:	2,599
Top 100 holders dominance:	99.91%
Contract deployer address:	0xcC00632C6Dd13008A30949e33dB3169dfF1fb31E
Contract's current owner address:	0x3e9b5fed2bc017ed1f4404ae12584b2bf889faae

COLLECTIBLE token distribution

The top 100 holders collectively own 99.91% (11,869,379.00 Tokens) of COLLECTIBLE

Token Total Supply: 11,880,000.00 Token | Total Token Holders: 464

COLLECTIBLE Top 100 Token Holders
Source: BscScan.com



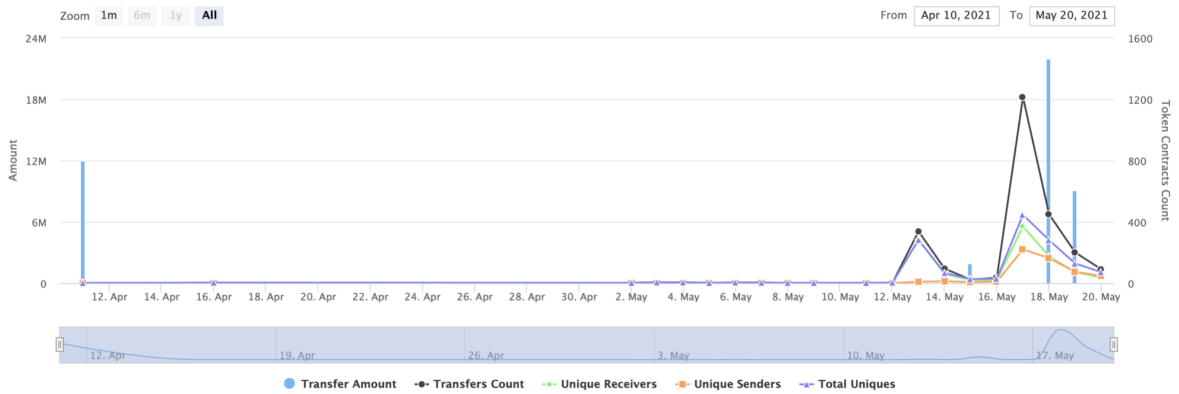
(A total of 11,869,379.00 tokens held by the top 100 accounts from the total supply of 11,880,000.00 token)

COLLECTIBLE contract interaction details

Time Series: Token Contract Overview

Sun 11, Apr 2021 - Thu 20, May 2021

Token Contract 0x4b2172e798572973b2e670678902d26d2e44c24a (COLLECTIBLE)
Source: BscScan.com



COLLECTIBLE top 10 token holders

Rank	Address	Quantity (Token)	Percentage
1	0x69da1235282847d2a1f50cf3522cf5e72e7fe6c2	3,600,000	30.3030%
2	0x0568dc2ea19a5597e7ddddea3c27b74662f9d44a	3,000,000	25.2525%
3	0x27535De328abF167C001B2681b7E8Ab16e5Fd676	1,200,000	10.1010%
4	0x083e4612a497c7bfc61d0a31a10d9f30669bb54	1,200,000	10.1010%
5	0x3e9b5fed2bc017ed1f4404ae12584b2bf889faae	1,133,607	9.5421%
6	0x6d7f4bd7cad79078b4cf37026cf0811e435675bb	688,000	5.7912%
7	0x83eefba5b90e68a1349086462907f6d8341ece1	250,010	2.1045%
8	0x02fcaefce1c25a911e5747b106f586dc4552391c	250,001	2.1044%
9	0x7a16a54456860294cd7d04f5afbb5449ae310af1	250,000	2.1044%
10	0x9898fc53cc6097d64a9538ec9c6110d7a8c3014e	155,500	1.3089%

Contract functions details

- + CollectibleToken
 - [Pub] <Constructor> #
 - [Pub] balanceOf
 - [Pub] transfer #
 - [Pub] transferFrom #
 - [Pub] approve #
 - [Pub] allowance
 - [Pub] mint #
 - [Pub] burn #
 - [Pub] burnFrom #
 - [Pub] setOwner #
 - modifiers: isOwner

(\$) = 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 change the owner

```
function setOwner(address newOwner) public isOwner {  
    emit OwnerSet(owner, newOwner);  
    owner = newOwner;  
}
```

- ❑ Owner can mint, but the maximum amount is locked with the cap value(12000000)

```
function mint(address recipient, uint amount) public {  
    require(msg.sender == owner, 'Only owner can do this!');  
    require(totalSupply + amount <= cap, 'Exceeds hard cap!');  
  
    totalSupply += amount;  
    balances[recipient] += amount;  
  
    emit Transfer(address(0), recipient, amount);  
}
```


Conclusion

Smart contracts do not contain high severity issues.

Liquidity locking details provided by the team:

<https://dappbuilder.org/tokenlock/>

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.