



**TERRA CARD
SMART CONTRACT
SECURITY AUDIT**

SNIPFINANCE.COM
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AUDIT STRUCTURE

Audit Process

Step 1

Review Source Code

Step 2

Send Custom Quote

Step 3

Manual line-by-line code reviews by multiple auditors to ensure the logic behind each function

Step 4

Automated smart contract tests + Manual smart contract tests on testnet

Step 5

Suggest remediations

Step 6

Complete audit & provide certificate

Audit Package Selected

Type of Analysis

Manual Review: Yes

Dynamic Analysis: Yes

Static Analysis: Yes

Tests On Testnet: Yes

Type of Publication

Website Audit Publication: Yes

Twitter Audit Publication: Yes

SUMMARY

Project Details

Project Name: Terra Card

Platform: BSC

Language: Solidity

Source Code: [Click here](#)

Deployed: Yes

Liquidity Locked: Not Provided

Team Tokens Locked: Not Provided

Anon Team: Yes

Lines of Code: 2266 With Comments

Website: terracard.io

Project's Social Media:



Vulnerability Check

Total Issues: 0

Critical: 0

Medium: 0

Low: 0

Discussion: 0

ISSUES CHECKER TABLE

Issue Description	Passed
1. Compiler Errors	
2. Race Conditions and Reentrancy. Cross-function race Conditions	
3. Possible delays in data delivery	
4. Allowance Limit	
5. BNB Dividends	
6. Timestamp dependence	
7. Integer Overflow and Underflow	
8. DoS with Revert	
9. DoS with block gas limit	
10. Methods execution permissions	
11. Economy model of the contract	
12. The impact of the exchange rate on the logic	
13. Private user data leaks	
14. Malicious Event log	
15. Scoping and Declarations	
16. Uninitialized storage pointers	
17. Arithmetic accuracy	
18. Design Logic	

FINDINGS

✔ High severity issues

No high severity issues

✔ Medium severity issues

No Medium severity issues

✔ Low severity issues

No Low severity issues

Tests were performed with automated private scripts, manual tests were also performed on Binance testnet to ensure easy understanding for all

TESTS

Smart-Contract link and source code

<https://bscscan.com/address/0x39436ad2a19a9a307b6bc0a7f53ccf9aadaef2fb>

Token Smart Contract(testnet) link and source code

<https://testnet.bscscan.com/address/0x2cc2ecbc9c4e87cba03e257fbc0ecf6b8f067186>

Action: Add liquidity

<https://testnet.bscscan.com/tx/0x52eae75428a1c34485e0a77215ce49463e330cd37baa202af2b6fdb1df142847>

Result: Correct

Action: Swap

<https://testnet.bscscan.com/tx/0xf34fbfb15cbb67df49e2b36ca4320daed2c1989bf373b160e8c5491e500bf786>

Result: correct

Action: Swap bnb for TCR

<https://testnet.bscscan.com/tx/0xb8dc9b7619dbe85751fe2e7abbb3500af3ea0d685ba697f09bc06f8f92439456>

Result: correct, fees NOT taken correctly because it is excluded from fees

Action: Include in fees

<https://testnet.bscscan.com/tx/0x14f1b97301c60eb07a3e7d2565f85fd380da099f07a3609cee278480a0c0ff0a>

TESTS

Action: Swap BNB for TCR

<https://testnet.bscscan.com/tx/0x263537d311aec8d696584d2ae7e4d97223a3239c975acaa15df1464081cb38a>

Result: Fees taken correctly

Action: swap TCR for BNB

<https://testnet.bscscan.com/tx/0x4969ba3f3ff04d98469c212e4aad0c1dfbda3139423194a560d49ee9d5a24db7>

Result: Fees taken correctly + dividends sent correctly + burn LP tokens generated by LP fee

Anti-Dump system has been tested both on testnet and with truffle scripts.

The antidump mechanism (standard fee + extra fee applied if more than 150000 TRC are transferred within 24hours + max sell) mechanism works correctly.

CONCLUSION

This is a dividend contract with transfers on fees; every transaction (swaps, transfers) will take fees that are needed to provide the dividends and the owner fees.

There is a minimum of 10000 TCR to hold to be eligible to dividends

The contract has owner privileges that will allow the owner to change the following parameters:

Fees, wallet fees where the related fees will go, blacklist, minimum tokens to hold to get the dividends, exclude/include from fees and dividends, change the anti dump mechanism.

Suggestion: renounce ownership once the parameters are set and the owner doesn't need to change the parameters anymore, however the owner must take in consideration that by renouncing the ownership he won't be able to change any parameter that could be useful such as exclude from fees and exchange address.

The Terra Card Smart contract could take a high amount of gas due to the triggering of the swapamount function needed to distribute dividends and collect treasury funds.

The smart contract only works properly if there is enough liquidity in the token pool otherwise transactions will fail and the contract will be stuck until there will be enough liquidity to allow the contract to swap and liquify the tokens in the contract itself

Terra Card smart contract audited works as expected and it can be used in production.

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This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process intended to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

Blockchain technology and cryptographic assets present a high level of ongoing risk. SnipeFinance.com's positions that each company and individual are responsible for their own due diligence and continuous security. SnipeFinance.com's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies, and in no way claims any guarantee of security or functionality of the technology we agree to analyze.

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.

