



Smart Contract Security Audit

TechRate
June, 2021

Audit Details



Audited project

Cancelon



Deployer address

0xae798857bD79eF3163DC2828296a7F07B71c2975



Client contacts:

Cancelon 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 Cancelon to perform an audit of smart contracts:

https://bscscan.com/address/0x989e26d15e2cbc5a095d01317ff3aac7488f0dc6#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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Contracts Details

Token contract details for 14.06.2021

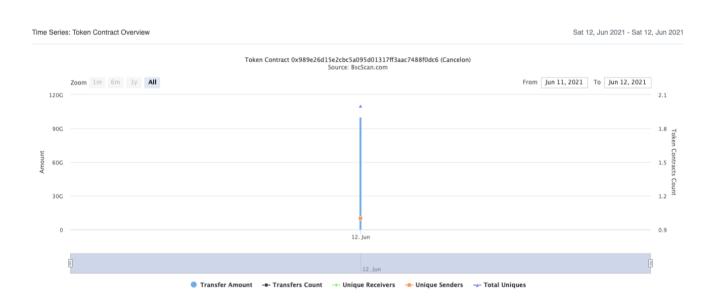
Contract name	Cancelon
Contract address	0x989e26D15e2cbc5a095D01317ff3AaC7488f0Dc6
Total supply	100,000,000,000
Token ticker	CELON
Decimals	9
Token holders	1
Transactions count	1
Top 100 holders dominance	100.00%
Tax fee	8
Total fees	0
Contract deployer address	0xae798857bD79eF3163DC2828296a7F07B71c2975
Contract's current owner address	0xae798857bd79ef3163dc2828296a7f07b71c2975

Cancelon Token Distribution



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

Cancelon Contract Interaction Details



Cancelon Top 10 Token Holders

Rank	Address	Quantity (Token)	Percentage	
1	0xae798857bd79ef3163dc2828296a7f07b71c2975	100.000.000.000	100.0000%	



Contract functions details

+ [Lib] SafeMath - [Int] add - [Int] sub - [Int] sub - [Int] mul - [Int] div - [Int] div - [Int] mod - [Int] mod + Context - [Int] _msgSender -[Int] msgData + [Int] IERC20 - [Ext] totalSupply - [Ext] balanceOf - [Ext] transfer # - [Ext] allowance - [Ext] approve # - [Ext] transferFrom # + [Lib] Address - [Int] isContract - [Int] sendValue # - [Int] functionCall # - [Int] functionCall # - [Int] functionCallWithValue # - [Int] functionCallWithValue # - [Prv] _functionCallWithValue # + Ownable (Context) - [Int] <Constructor># - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlyOwner - [Pub] transferOwnership # - modifiers: onlyOwner + Cancelon (Context, IERC20, Ownable) - [Pub] <Constructor> # - [Ext] disableLimitMode # - modifiers: onlyOwner - [Ext] enableLimitMode # - modifiers: onlyOwner - [Pub] name - [Pub] symbol - [Pub] decimals - [Pub] totalSupply - [Pub] balanceOf

- [Pub] transfer #

- [Pub] allowance
- [Pub] approve #
- [Pub] transferFrom #
- [Pub] increaseAllowance #
- [Pub] decreaseAllowance #
- [Pub] isExcluded
- [Pub] totalFees
- [Ext] setFeePercent #
 - modifiers: onlyOwner
- [Pub] diffract #
- [Pub] diffractionFromToken
- [Pub] tokenFromdiffraction
- [Ext] excludeAccount #
 - modifiers: onlyOwner
- [Ext] includeAccount #
 - modifiers: onlyOwner
- [Prv] _approve #
- [Prv] _transfer #
- [Prv] _transferStandard #
- [Prv] _transferToExcluded #
- [Prv] transferFromExcluded #
- [Prv] _transferBothExcluded #
- [Prv] diffractFee #
- [Prv] _getValues
- [Prv] _getTValues
- [Prv] _getRValues
- [Prv] getRate
- [Prv] _getCurrentSupply
- (\$) = 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 includeAccount() 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 includeAccount(address account1) external onlyOwner() {
    require(_isExcluded[account1], "Account is not excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account1) {
            excluded[i] = _excluded.length - 1];
            _towned[account1] = 0;
            isExcluded[account1] = 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.

```
function _getCurrentSupply() private view returns(uint256, uint256) {
   uint256 rSupply = _rTotal;
   uint256 tSupply = _tTotal;
   for (uint256 i = 0; i < _excluded.length; i++) {
      if (_rOwned[_excluded[i]] > rSupply || _tOwned[_excluded[i]] > tSupply) return (_rTotal, _tTotal);
      rSupply = rSupply.sub(_rOwned[_excluded[i]]);
      tSupply = tSupply.sub(_tOwned[_excluded[i]]);
   }
   if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
   return (rSupply, tSupply);
}</pre>
```

Recommendation:

Check that the excluded array length is not too big.

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

• Owner can disable and enable limit mode.

```
ftrace|funcSig
function disableLimitMode() external onlyOwner() {
    LimitMode = false;
}

ftrace|funcSig
function enableLimitMode() external onlyOwner() {
    LimitMode = true;
}
```

• Owner can change the tax fee.

```
ftrace|funcSig
function setFeePercent(uint8 taxFee1) external onlyOwner() {
     taxFee = taxFee1;
}
```

Conclusion

Smart contracts contain low severity issues!

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.





