



TechRate
AUDIT COMPANY

Smart Contract Security Audit

Audit Details



Audited project

Crypto Classic



Deployer address

0x1e1226d0a8d1e511b8dcbafeed978b02d21e0c1



Client contacts:

Crypto Classic team



Blockchain

Binance Smart Chain



Project website:

Not provided by Crypto Classic team

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 Crypto Classic to perform an audit of smart contracts:

<https://bscscan.com/address/0x8a6cfd647abdafb80cfcf941bf96011a67f35e9a#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 30.09.2021

| | |
|----------------------------------|--|
| Contract name | Crypto Classic |
| Contract address | 0x8A6cFd647Abdafb80CFcF941bF96011a67f35E9a |
| Total supply | 100,000,000 |
| Token ticker | CRC |
| Decimals | 18 |
| Token holders | 102 |
| Transactions count | 111 |
| Top 100 holders dominance | 100.00% |
| Tax fee | 1 |
| Burn fee | 0 |
| Contract deployer address | 0x1e1226d0a8d1e511b8dcbafeed978b02d21e0c1 |
| Contract's current owner address | 0x133d9e0df59f97778dcda952d74aa46ba17a3b6c |

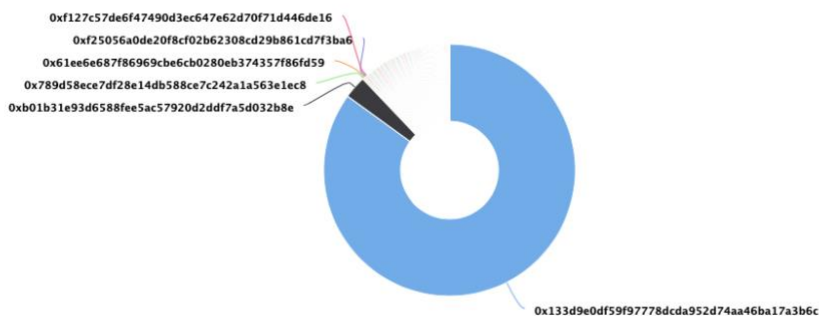
Crypto Classic Token Distribution

The top 100 holders collectively own 100.00% (99,999,750.00 Tokens) of Crypto Classic

Token Total Supply: 100,000,000.00 Token | Total Token Holders: 102

Crypto Classic Top 100 Token Holders

Source: BscScan.com



(A total of 99,999,750.00 tokens held by the top 100 accounts from the total supply of 100,000,000.00 token)

Crypto Classic Contract Interaction Details

Time Series: Token Contract Overview

Fri 24, Sept 2021 - Tue 28, Sept 2021

Token Contract 0x8a6cfd647abdafb80cfc941bf96011a67f35e9a (Crypto Classic)
Source: BscScan.com



Crypto Classic Top 10 Token Holders

| Rank | Address | Quantity (Token) | Percentage |
|------|--|------------------------|------------|
| 1 | 0x133d9e0df59f97778dcda952d74aa46ba17a3b6c | 84,993,334 | 84.9933% |
| 2 | 0xb01b31e93d6588fee5ac57920d2ddf7a5d032b8e | 2,909,052.903936321403 | 2.9091% |
| 3 | 0x789d58ece7df28e14db588ce7c242a1a563e1ec8 | 184,708.1205064927 | 0.1847% |
| 4 | 0x61ee6e687f86969cbe6cb0280eb374357f86fd59 | 179,523.5165 | 0.1795% |
| 5 | 0xf25056a0de20f8c02b62308cd29b861cd7f3ba6 | 179,523.3165 | 0.1795% |
| 6 | 0xf127c57de6f47490d3ec647e62d70f71d446de16 | 178,871.1247 | 0.1789% |
| 7 | 0xc101e21055058741c960c9a9b29935323c346336 | 177,871.1247 | 0.1779% |
| 8 | 0x2b9d325dfede2859122d214f0cc3bd635a94a7ec | 176,871.124725916 | 0.1769% |
| 9 | 0xef0093707a40f143e9b35a1dd45e952a8038acb6 | 176,865.1838 | 0.1769% |
| 10 | 0x7c099e24e4efe1c11f6ecb03f8f050bbab7ce965 | 176,745.5224 | 0.1767% |



Contract functions details

- + [Lib] SafeMath
 - [Int] mul
 - [Int] div
 - [Int] sub
 - [Int] add
- + Ownable
 - [Pub] transferOwnership #
 - modifiers: onlyOwner
- + Pausable (Ownable)
 - [Pub] pause #
 - modifiers: onlyOwner,whenNotPaused
 - [Pub] unpause #
 - modifiers: onlyOwner,whenPaused
- + ERC20Basic
 - [Pub] balanceOf
 - [Pub] transfer #
- + ERC20 (ERC20Basic)
 - [Pub] allowance
 - [Pub] transferFrom #
 - [Pub] approve #
- + StandardToken (ERC20)
 - [Pub] transfer #
 - [Pub] balanceOf
 - [Pub] transferFrom #
 - [Pub] approve #
 - [Pub] allowance
 - [Pub] increaseApproval #
 - [Pub] decreaseApproval #
 - [Int] _blackList #
- + PausableToken (StandardToken, Pausable)
 - [Pub] transfer #
 - modifiers: whenNotPaused
 - [Pub] transferFrom #
 - modifiers: whenNotPaused
 - [Pub] approve #
 - modifiers: whenNotPaused
 - [Pub] increaseApproval #
 - modifiers: whenNotPaused
 - [Pub] decreaseApproval #
 - modifiers: whenNotPaused
 - [Pub] blacklistAddress #
 - modifiers: whenNotPaused,onlyOwner
- + CoinToken (PausableToken)
 - [Pub] <Constructor> #

- [Pub] burn #
- [Pub] updateFee #
 - modifiers: onlyOwner
- [Int] _burn #
- [Pub] mint #
 - 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. | High issues |
| 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

1. Wrong allowance calculations

Issue:

- In `transferFrom(address _from,...)` function allowance decreases with taxes included recalculated value, but should be decreased by initial function argument value.

Recommendation:

Decrease allowance before taking from transfer amount or keep transfer value in another variable to decrease allowance with proper transfer amount.

✓ 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 tax and burn fee and fee address.

```
function updateFee(uint256 _txFee↑,uint256 _burnFee↑,address _FeeAddress↑) onlyOwner public{
    txFee = _txFee↑;
    burnFee = _burnFee↑;
    FeeAddress = _FeeAddress↑;
}
```

- Owner can blacklist addresses.

```
function blackListAddress(address listAddress↑, bool isBlackListed↑) public whenNotPaused onlyOwner returns (bool success↑) {
    return super._blackList(listAddress↑, isBlackListed↑);
}
```

- Owner can mint any amount of tokens.

```
function mint(address account↑, uint256 amount↑) onlyOwner public {
    totalSupply = totalSupply.add(amount↑);
    balances[account↑] = balances[account↑].add(amount↑);
    emit Mint(address(0), account↑, amount↑);
    emit Transfer(address(0), account↑, amount↑);
}
```

- Owner can pause/unpause contract.

```
ftrace | funcSig
function pause() onlyOwner whenNotPaused public {
    paused = true;
    emit Pause();
}

/**
 * @dev called by the owner to unpause, returns to normal state
 */
ftrace | funcSig
function unpause() onlyOwner whenPaused public {
    paused = false;
    emit Unpause();
}
```

Conclusion

Smart contracts contain high severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details 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.



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