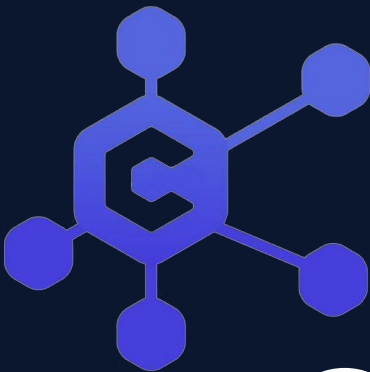




# SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT



**Cryptonomics**  
\$Cryo

**03/12/2022**



# TOKEN OVERVIEW

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## Fees

- Buy fees: 7%
- Sell fees: 7%

## Fees privileges

- Can set fees up to 100%

## Ownership

- Owned

## Minting

- No mint function

## Max Tx Amount / Max Wallet Amount

- Can change max tx amount and max wallet amount without threshold

## Blacklist

- Blacklist function detected

## Other privileges

- Can exclude / include from fees
  - Can exclude / include from dividends
  - Can exclude / include from tx limitations and wallet limitations
-

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# DISCLAIMER

The information provided on this analysis document is only for general information and should not be used as a reason to invest.

FreshCoins Team will take no payment for manipulating the results of this audit.

The score and the result will stay on this project page information on our website <https://freshcoins.io>

FreshCoins Team does not guarantees that a project will not sell off team supply, or any other scam strategy ( RUG or Honeypot etc )



# INTRODUCTION

**FreshCoins** (Consultant) was contracted by **Cryptonomics** (Customer) to conduct a Smart Contract Code Review and Security Analysis.

**0x31AEF016A16A669Bef148DFa6F1C892B7715620e**

**Network: Binance Smart Chain (BSC)**

This report presents the findings of the security assessment of Customer's smart contract and its code review conducted on **03/12/2022**



# AUDIT OVERVIEW



Security Score  
**HIGH RISK**



**Static Scan**  
Automatic scanning for  
common vulnerabilities



**ERC Scan**  
Automatic checks for  
ERC's conformance



High



Medium



Low



Optimizations



Informational



No.	Issue description	Checking Status
1	Compiler Errors / Warnings	Passed
2	Reentrancy and Cross-function	Passed
3	Front running	Passed
4	Timestamp dependence	Passed
5	Integer Overflow and Underflow	Passed
6	Reverted DoS	Passed
7	DoS with block gas limit	Passed
8	Methods execution permissions	Passed
9	Exchange rate impact	Passed
10	Malicious Event	Passed
11	Scoping and Declarations	Passed
12	Uninitialized storage pointers	Passed
13	Design Logic	Passed
14	Safe Zeppelin module	Passed

# OWNER PRIVILEGES

- Contract owner can't mint tokens after initial contract deploy
- Contract owner can exclude an address from transactions

```
function updateIsBlacklisted(address account, bool state) external onlyOwner{
    _isBlacklisted[account] = state;
}

function bulkIsBlacklisted(address[] memory accounts, bool state) external onlyOwner{
    for(uint256 i=0; i < accounts.length; i++){
        _isBlacklisted[accounts[i]] = state;
    }
}
```

- Contract owner can exclude/include wallet(s) from tax

```
function excludeFromFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = true;
}

function includeInFee(address account) public onlyOwner {
    _isExcludedFromFee[account] = false;
}

function bulkExcludeFee(address[] memory accounts, bool state) external onlyOwner{
    for(uint256 i = 0; i < accounts.length; i++){
        _isExcludedFromFee[accounts[i]] = state;
    }
}
```

- Contract owner can exclude/include wallet from rewards

```
function excludeFromReward(address account) public onlyOwner() {
    require(!_isExcluded[account], "Account is already excluded");
    if(_rOwned[account] > 0) {
        _tOwned[account] = tokenFromReflection(_rOwned[account]);
    }
    _isExcluded[account] = true;
    _excluded.push(account);
}

function includeInReward(address account) external onlyOwner() {
    require(_isExcluded[account], "Account is not excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}
```



## ● Contract owner can change fees up to 100%

```
function setTaxes(uint256 _rfi, uint256 _development, uint256 _liquidity, uint256 _marketing) public
onlyOwner {
    taxes = Taxes(_rfi, _development, _liquidity, _marketing);
    emit FeesChanged();
}

function setSellTaxes(uint256 _rfi, uint256 _development, uint256 _liquidity, uint256 _marketing) public
onlyOwner {
    sellTaxes = Taxes(_rfi, _development, _liquidity, _marketing);
    emit FeesChanged();
}
```

## ● Contract owner can change marketingWallet, developmentWallet addresses

Current values:

**marketingWallet** : 0x607c1fc72ff68638d989aa98681ea47500cabba6

**developmentWallet** : 0x607c1fc72ff68638d989aa98681ea47500cabba6

```
function updateMarketingWallet(address newWallet) external onlyOwner{
    marketingWallet = newWallet;
}

function updateDevelopmentWallet(address newWallet) external onlyOwner{
    developmentWallet = newWallet;
}
```

## ● Contract owner can change swap settings

```
function updateSwapTokensAtAmount(uint256 amount) external onlyOwner{
    swapTokensAtAmount = amount * 10**_decimals;
}

function updateSwapEnabled(bool _enabled) external onlyOwner{
    swapEnabled = _enabled;
}
```

## ● Contract owner can change max tx amount limitations and max wallet amount to 0 value

```
function updateMaxTxLimit(uint256 maxBuy, uint256 maxSell) external onlyOwner{
    maxBuyLimit = maxBuy * 10**decimals();
    maxSellLimit = maxSell * 10**decimals();
}

function updateMaxWalletLimit(uint256 amount) external onlyOwner{
    maxWalletLimit = amount * 10**decimals();
}
```

## ● Contract owner can change cooldown between trades status and interval value

```
function updateCooldown(bool state, uint256 time) external onlyOwner{
    coolDownTime = time * 1 seconds;
    coolDownEnabled = state;
}
```

## ● Contract owner can enable/disable trading

```
function setTradingStatus(bool state) external onlyOwner{
    tradingEnabled = state;
    swapEnabled = state;
    if(state == true && genesis_block == 0) genesis_block = block.number;
}
```

## ● Contract owner can transfer tokens to specific wallet(s)

```
function airdropTokens(address[] memory accounts, uint256[] memory amounts) external onlyOwner{
    require(accounts.length == amounts.length, "Arrays must have same size");
    for(uint256 i = 0; i < accounts.length; i++){
        _tokenTransfer(msg.sender, accounts[i], amounts[i], false, false);
    }
}
```

## ● Contract owner can withdraw stuck tokens from smart contract

```
function rescueBNB(uint256 weiAmount) external onlyOwner{
    require(address(this).balance >= weiAmount, "insufficient BNB balance");
    payable(msg.sender).transfer(weiAmount);
}

function rescueAnyBEP20Tokens(address _tokenAddr, address _to, uint _amount) public onlyOwner {
    IERC20(_tokenAddr).transfer(_to, _amount);
}
```

## ● Contract owner can renounce ownership

```
function renounceOwnership() public virtual onlyOwner {
    _setOwner(address(0));
}
```

## ● Contract owner can transfer ownership

```
function transferOwnership(address newOwner) public virtual onlyOwner {
    require(newOwner != address(0), "Ownable: new owner is the zero address");
    _setOwner(newOwner);
}
```

### **Recommendation:**

The team should carefully manage the private keys of the owner's account. We strongly recommend a powerful security mechanism that will prevent a single user from accessing the contract admin functions. The risk can be prevented by temporarily locking the contract or renouncing ownership.



# CONCLUSION AND ANALYSIS



Smart Contracts within the scope were manually reviewed and analyzed with static tools.



Audit report overview contains all found security vulnerabilities and other issues in the reviewed code.



Found 4 HIGH issues during the first review.

# TOKEN DETAILS

## Details

Buy fees:	7%
Sell fees:	7%
Max TX:	20,000
Max Sell:	20,000

## Honeypot Risk

Ownership:	Owned
Blacklist:	Detected
Modify Max TX:	Detected
Modify Max Sell:	Detected
Disable Trading:	Detected

## Others

Liquidity:	N/A
Holders:	Clean



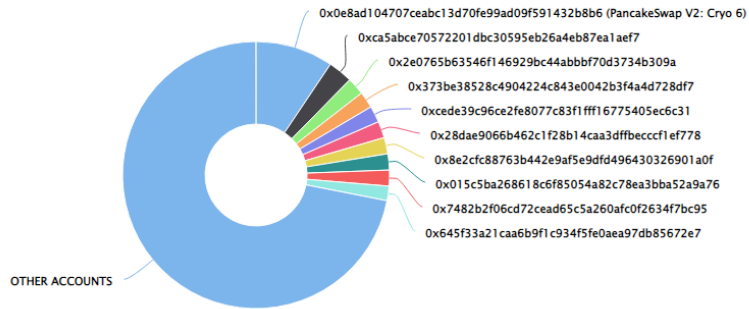
# CRYPTONOMICS TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 28.09% (280,936.65 Tokens) of Cryptonomics

Token Total Supply: 1,000,000.00 Token | Total Token Holders: 341

Cryptonomics Top 10 Token Holders

Source: BscScan.com



(A total of 280,936.65 tokens held by the top 10 accounts from the total supply of 1,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	<a href="#">PancakeSwap V2: Cryo 6</a>	94,235.843137	9.4236%
2	<a href="#">0xca5abce70572201dbc30595eb26a4eb87ea1aef7</a>	29,504.474113	2.9504%
3	<a href="#">0x2e0765b63546f146929bc44abbbf70d3734b309a</a>	21,149.943696	2.1150%
4	<a href="#">0x373be38528c4904224c843e0042b3f4a4d728df7</a>	19,980	1.9980%
5	<a href="#">0xcde39c96ce2fe8077c83f1fff16775405ec6c31</a>	19,936	1.9936%
6	<a href="#">0x28dae9066b462c1f28b14caa3dffbeccc1ef778</a>	19,918.104655	1.9918%
7	<a href="#">0x8e2cfc88763b442e9af5e9dfd496430326901a0f</a>	19,750.288806	1.9750%
8	<a href="#">0x015c5ba268618c6f85054a82c78ea3bba52a9a76</a>	19,560	1.9560%
9	<a href="#">0x7482b2f06cd72cead65c5a260afc0f2634f7bc95</a>	19,300	1.9300%
10	<a href="#">0x645f33a21caa6b9f1c934f5fe0aea97db85672e7</a>	17,602	1.7602%

# TECHNICAL DISCLAIMER

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have its vulnerabilities that can lead to hacks. The audit can't guarantee the explicit security of the audited project / smart contract.

