

# SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT









# **TOKEN OVERVIEW**

#### Fees

• Buy fees: 5%

• Sell fees: 5%

## Fees privileges

• Can change buy fees up to 5% and sell fees up to 5%

#### Ownership

Owned

#### **Minting**

No mint function

#### Max Tx Amount / Max Wallet Amount

• Can change max tx amount and / or max wallet amount (with threshold)

#### **Blacklist**

Blacklist function not detected

### Other privileges

- · Can exclude / include from fees
- Contract owner has to set true setTrading function to enable trade

## **TABLE OF CONTENTS**

- 1 DISCLAIMER
- 2 INTRODUCTION
- **3** WEBSITE + SOCIALS
- 4-5 AUDIT OVERVIEW
- 6-8 OWNER PRIVILEGES
- 9 CONCLUSION AND ANALYSIS
- (10) TOKEN DETAILS
- CODEX TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS
- (12) TECHNICAL DISCLAIMER

## **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 CODEX (Customer) to conduct a Smart Contract Code Review and Security Analysis.

0xcbe11cab348ac489ff2cbe4b19db853b2a568a1e

**Network: Ethereum (Goerli Testnet)** 

This report presents the findings of the security assessment of Customer's smart contract and its code review conducted on 08/12/2023



# **WEBSITE DIAGNOSTIC**

https://codextoken.com/



0-49



50-89



90-100



**Performance** 



Accessibility



Best Practices



SEO



Progressive Web App

## Socials



https://twitter.com/codex\_token



Telegram

https://t.me/codex\_coin

# **AUDIT OVERVIEW**





Static Scan
Automatic scanning for
common vulnerabilities



ERC Scan
Automatic checks for ERC's conformance

- 1 High
- 1 Medium
- 0 Low
- Optimizations
- o 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	Low
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't exclude an address from transactions
- Contract owner can exclude/include wallet(s) from tax

```
function excludeMultipleAccountsFromFees(address[] calldata accounts, bool excluded) public onlyOwner {
    for(uint256 i = 0; i < accounts.length; i++) {
        _isExcludedFromFee[accounts[i]] = excluded;
    }
}</pre>
```

Contract owner has to set true setTrading function to enable trade

Please note that owner wallet retains the ability to engage in trading, even in situations where trading has been disabled. Trading once enabled, can't be disabled.

```
function setTrading(bool _tradingOpen) public onlyOwner {
    require(!tradingOpen, "Cannot reenable trading");
    tradingOpen = _tradingOpen;
}
_transferFrom function line 348
.
.
.
.
.
if (!tradingOpen) {
    require(from == owner(), "TOKEN: This account cannot send tokens until trading is enabled");
}
.
.
.
.
```

Contract owner can change swap settings

```
function setMinSwapTokensThreshold(uint256 swapTokensAtAmount) public onlyOwner {
    _swapTokensAtAmount = swapTokensAtAmount;
}

function toggleSwap(bool _swapEnabled) public onlyOwner {
    swapEnabled = _swapEnabled;
}
```

Contract owner can change buy fees up to 5% and sell fees up to 5%

```
function setFee(uint256 redisFeeOnBuy, uint256 redisFeeOnSell, uint256 taxFeeOnBuy, uint256 taxFeeOnSell)

public onlyOwner {
    require(redisFeeOnBuy >= 0 && redisFeeOnBuy <= 0, "Buy rewards must be between 0% and 0%");
    require(taxFeeOnBuy >= 0 && taxFeeOnBuy <= 5, "Buy tax must be between 0% and 25%");
    require(redisFeeOnSell >= 0 && redisFeeOnSell <= 0, "Sell rewards must be between 0% and 0%");
    require(taxFeeOnSell >= 0 && taxFeeOnSell <= 5, "Sell tax must be between 0% and 98%");

    _redisFeeOnBuy = redisFeeOnBuy;
    _redisFeeOnSell = redisFeeOnSell;
    _taxFeeOnBuy = taxFeeOnBuy;
    _taxFeeOnSell = taxFeeOnSell;
}
```

Contract owner can change max tx amount limitation (with threshold)

```
function setMaxTxnAmount(uint256 maxTxAmount) public onlyOwner {
    require(maxTxAmount >= totalSupply().div(100), "value too low");
    _maxTxAmount = maxTxAmount;
}
```

Contract owner can change max wallet amount limitation (with threshold)

```
function setMaxWalletSize(uint256 maxWalletSize) public onlyOwner {
    require(maxWalletSize >= totalSupply().div(100), "value too low");
    _maxWalletSize = maxWalletSize;
}
```

Contract owner can transfer ownership

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

Contract owner can renounce ownership

```
function renounceOwnership() public virtual onlyOwner {
    emit OwnershipTransferred(_owner, address(0));
    _owner = address(0);
}
```

#### **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 1 HIGH issues during the first review.

## **TOKEN DETAILS**

#### **Details**

Buy fees: 5%

Sell fees: 5%

Max TX: 2,000,000

Max Sell: 2,000,000

### **Honeypot Risk**

Ownership: Owned

Blacklist: Not detected

Modify Max TX: Detected

Modify Max Sell: Not detected

Disable Trading: Not detected

## Rug Pull Risk

Liquidity: N/A

Holders: Clean



# **CODEX TOKEN ANALYTICS**& TOP 10 TOKEN HOLDERS



## **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.

