



# SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT



**Cyberquad**  
\$Cyberquad



**06/08/2023**



# TOKEN OVERVIEW

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## Fees

- Buy fees: 1%
- Sell fees: 3%

## Fees privileges

- Can change buy fees up to 10% and sell fees up to 10%

## Ownership

- Owned

## Minting

- No mint function

## Max Tx Amount / Max Wallet Amount

- Can't change max tx amount and / or max wallet amount

## Blacklist

- Blacklist function not detected

## Other privileges

- Can exclude / include from fees
  - Contract owner has to call `confirmLpFilled` function to enable trade
-

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

**0xFed74242dADcC824E2e0ad90eCd5D913252CE1CA**

Network: **Ethereum (ETH)**

This report presents the findings of the security assessment of Customer's smart contract and its code review conducted on **06/08/2023**



# WEBSITE DIAGNOSTIC

<https://www.cyberquad.charity/>



0-49



50-89



90-100



Performance



Accessibility



Best  
Practices



SEO



Progressive  
Web App

## Socials



Twitter

<https://twitter.com/CyberquadC66512>



Telegram

<https://t.me/CyberquadEN>

# AUDIT OVERVIEW



Security Score



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	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 from tax

```
function updateExcludedFromFees(address _address, bool state) external onlyOwner {
    excludedFromFees[_address] = state;
}
```

- Contract owner can change **marketingWallet** and **charityFunds** addresses

Current values:

**marketingWallet:** 0x228Fe119Adf2d141D2020C44eB66F2641E7833a5

**charityFunds:** 0x818A00Aa2D2F008e3730e70B27BB672bA172a789

```
function updateMarketingWallet(address newWallet) external onlyOwner{
    require(newWallet != address(0), "Marketing wallet cannot be zero");
    marketingWallet = newWallet;
}

function updateCharityFunds(address newWallet) external onlyOwner{
    require(newWallet != address(0), "Charity wallet cannot be zero");
    charityFunds = newWallet;
}
```

- Contract owner has to call **confirmLpFilled** function to enable trade

Note that any wallet excluded from fees can trade even if trading is disabled

```
function confirmLpFilled() external onlyOwner{
    lpFilled = true;
    swapEnabled = true;
}

... line 940 in transfer function
.
.
.
require(lpFilled || excludedFromFees[sender] || excludedFromFees[recipient], "Trading disabled");
.
.
.
```

## ● Contract owner can change buy fees up to 10% and sell fees up to 10%

```
function setBuyTaxes(uint256 _marketing, uint256 _charity, uint256 _liquidity) external onlyOwner{
    require(
        _marketing + _charity + _liquidity <= 10,
        "Total buy fee is over 10%"
    );
    buyTaxes = Taxes(_marketing, _charity, _liquidity);
    totalBuyTax = _marketing + _charity + _liquidity;
}

function setSellTaxes(uint256 _marketing, uint256 _charity, uint256 _liquidity) external onlyOwner{
    require(
        _marketing + _charity + _liquidity <= 10,
        "Total sell fee is over 10%"
    );
    sellTaxes = Taxes(_marketing, _charity, _liquidity);
    totalSellTax = _marketing + _charity + _liquidity;
}
```

## ● Contract owner has ability to retrieve any token held by the contract

Native tokens excluded

```
function rescueBEP20(address tokenAddress, uint256 amount) external onlyOwner{
    require(tokenAddress != address(this), "Can't take self token");
    IERC20(tokenAddress).transfer(owner(), amount);
}

function rescueBNB(uint256 weiAmount) external onlyOwner{
    payable(owner()).sendValue(weiAmount);
}
```

## ● Contract owner can change swap settings

```
function setSwapEnabled(bool state) external onlyOwner {
    swapEnabled = state;
}

function setSwapThreshold(uint256 new_amount) external onlyOwner {
    swapThreshold = new_amount * 10**decimals();
}
```

## ● Contract owner can transfer ownership

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

function _transferOwnership(address newOwner) internal virtual {
    address oldOwner = _owner;
    _owner = newOwner;
    emit OwnershipTransferred(oldOwner, newOwner);
}
```

## ● Contract owner can renounce ownership

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

- The liquidity of the contract automatically gets credited into the owner's wallet whenever the 'addLiquidity' function is called inside the contract. Note that it cannot be called manually but it will be done automatically every time the swap and liquify function is called. Moreover, even after the renouncement of the ownership, this liquidity will still be credited to the owner's wallet.

```
function addLiquidity(uint256 tokenAmount, uint256 bnbAmount) private {  
    // approve token transfer to cover all possible scenarios  
    _approve(address(this), address(router), tokenAmount);  
  
    // add the liquidity  
    router.addLiquidityETH{value: bnbAmount}(  
        address(this),  
        tokenAmount,  
        0, // slippage is unavoidable  
        0, // slippage is unavoidable  
        owner(),  
        block.timestamp  
    );  
}
```

### 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:	1%
Sell fees:	3%
Max TX:	N/A
Max Sell:	N/A

## Honeypot Risk

Ownership:	Owned
Blacklist:	Not detected
Modify Max TX:	Not detected
Modify Max Sell:	Not detected
Disable Trading:	Not detected

## Rug Pull Risk

Liquidity:	N/A
Holders:	14,3% unlocked tokens



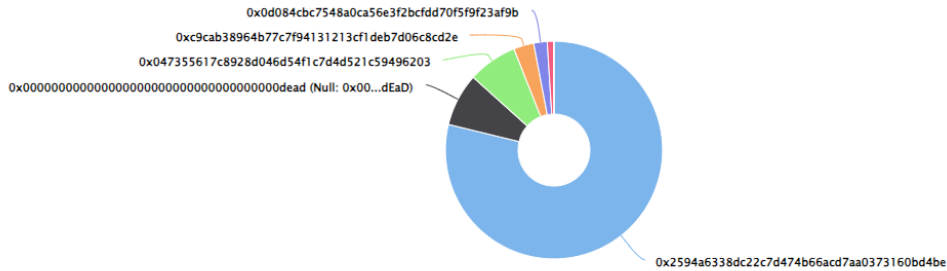
# CYBERQUAD TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 100.00% (6,100,000,000,000.00 Tokens) of Cyberquad

Token Total Supply: 6,100,000,000,000.00 Token | Total Token Holders: 6

Cyberquad Top 10 Token Holders

Source: Etherscan.io



(A total of 6,100,000,000,000.00 tokens held by the top 10 accounts from the total supply of 6,100,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	<a href="#">0x2594A6...160bD4BE</a>	4,806,312,000,000	78.7920%
2	<a href="#">Null: 0x00...dEaD</a>	479,338,000,000	7.8580%
3	<a href="#">0x047355...59496203</a>	448,350,000,000	7.3500%
4	<a href="#">0xc9cAb3...06C8CD2e</a>	183,000,000,000	3.0000%
5	<a href="#">0x0D084C...9f23aF9b</a>	122,000,000,000	2.0000%
6	<a href="#">0x161823...ed64Eae0</a>	61,000,000,000	1.0000%

# 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.

