freshcoins

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT

MemCap

$MC

06/04/2024

TOKEN OVERVIEW

Fees

- Buy fees: 5%
- Sell fees: 5%

Fees privileges

- Can change buy fees up to 100% and sell fees up to 100%

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 detected

Other privileges

- Can exclude / include from fees
- Investors won't be able to sell their tokens on PancakeSwap if swapEnabled is true and swapTokensAtAmount is set to 0

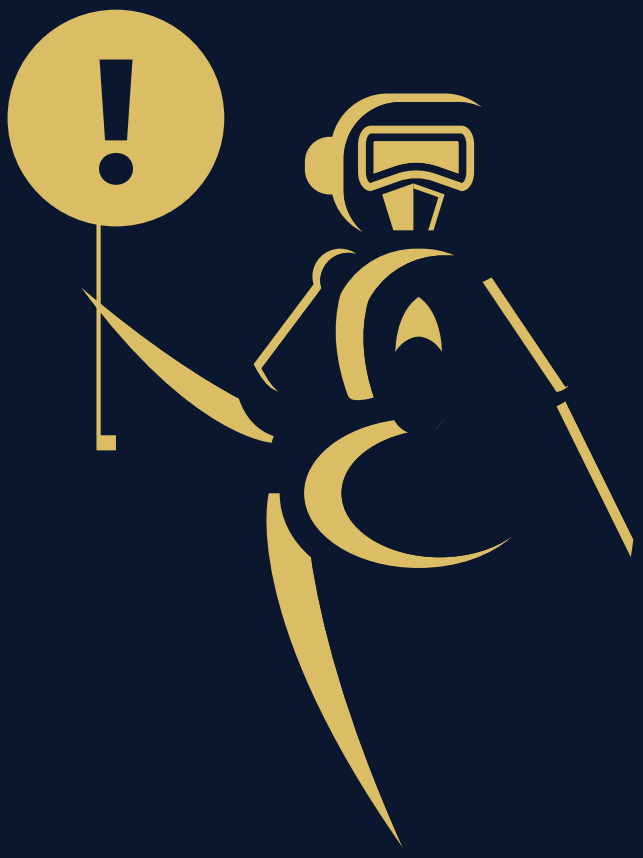
TABLE OF CONTENTS

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

0x7b318f8f8F17C654b4b38BBAdd7F6B5F5f76D566

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 06/04/2024

WEBSITE DIAGNOSTIC

https://memcap.ai/

0-49

50-89

90-100

Performance

Accessibility

Best Practices

SEO

Progressive Web App

Socials

Twitter

https://twitter.com/MemCapCrypto

Telegram

https://t.me/MemCapCrypto

AUDIT OVERVIEW

48

Security Score
HIGH RISK
Audit FAIL

93

Static Scan
Automatic scanning for common vulnerabilities

44

ERC Scan
Automatic checks for ERC's conformance

3	High
0	Medium
0	Low
0	Optimizations
0	Informational

No.	Issue description	Checking Status
1	Compiler Errors / Warnings	Passed
2	Reentrancy and Cross-function	Passed
3	Front running	Low
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 exclude addresses from transactions

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

- Contract owner can change swap settings (without threshold)

Users won't be able to sell their tokens on PancakeSwap if swapEnabled is true and swapTokensAtAmount is set to 0 because every transaction involving the token will trigger a swap for BNB, regardless of the transaction size

Default value: `uint256 public swapTokensAtAmount = 10 * 10**7 * (10**6);`

```
function setSwapTokensAmt(uint256 amt) external onlyOwner{
    swapTokensAtAmount = amt;
}

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

- Contract owner can change buy fees up to 100% and sell fees up to 100%

```
function setBuyFee(uint16 liqFee, uint16 team) external onlyOwner {
    buyFee.marketingFee = liqFee;
    buyFee.teamFee = team;
    totalBuyFee = buyFee.marketingFee + buyFee.teamFee;
}

function setSellFee(uint16 liqFee, uint16 team) external onlyOwner {
    sellFee.marketingFee = liqFee;
    sellFee.teamFee = team;
    totalSellFee = sellFee.marketingFee + sellFee.teamFee;
}
```

- Contract owner can change _teamWalletAddress and _marketingWalletAddress

Current values:

_teamWalletAddress : 0xca65a5b26a53c2C3bB068537308c11440F269756

_marketingWalletAddress: 0x28d3C918b19Bcec1F6eea0Fa01CB926E4567d443

```
function setTeamWallet(address payable wallet) external onlyOwner{
    _teamWalletAddress = wallet;
}

function setMarketingWallet(address payable wallet) external onlyOwner{
    _marketingWalletAddress = wallet;
}
```

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

```
function excludeFromFees(address account, bool excluded) public onlyOwner {
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}

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

    emit ExcludeMultipleAccountsFromFees(accounts, excluded);
}
```

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);
}

function _setOwner(address newOwner) private {
    address oldOwner = _owner;
    _owner = newOwner;
    emit OwnershipTransferred(oldOwner, newOwner);
}
```

Contract owner can renounce ownership

```
function renounceOwnership() public virtual onlyOwner {
    _setOwner(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 3 HIGH issues during the first review.

TOKEN DETAILS

Details

Buy fees:	5%
Sell fees:	5%
Max TX:	N/A
Max Wallet:	N/A

Honeypot Risk

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

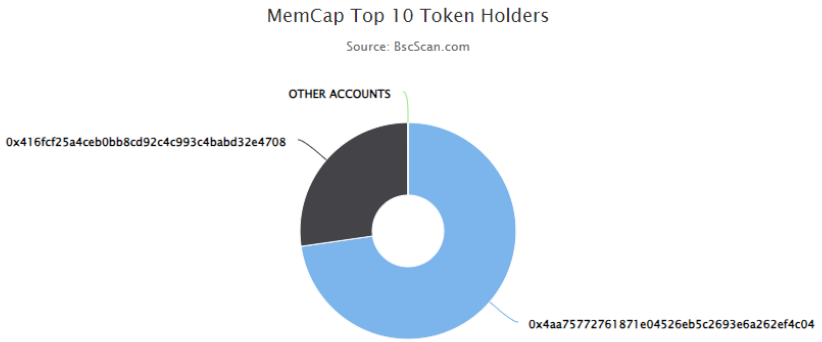
Rug Pull Risk

Liquidity:	N/A
Holders:	72% unlocked tokens

MC TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 100.00% (1,000,000,000.00 Tokens) of MemCap

Token Total Supply: 1,000,000,000.00 Token | Total Token Holders: 2



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

Rank	Address	Quantity (Token)	Percentage
1	0x4aa75772...262EF4c04	727,325,000	72.7325%
2	0x416fCF25...bD32e4708	272,675,000	27.2675%

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.