freshcoins

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT

OCTAGON
$OCTA

02/03/2022

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

0xfAC1aa32827422B215E0465bFAEEab3FF78D1927

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 02/03/2022

AUDIT OVERVIEW

98

Security Score

98

Static Scan
Automatic scanning for common vulnerabilities

98

ERC Scan
Automatic checks for ERC's conformance

0 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	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 exclude an address from transactions.

Contract owner can't mint tokens after initial contract deploy

Contract owner can exclude/include wallet from fees

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

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

Contract owner can exclude/include wallet from rewards

```solidity
function excludeFromReward(address account) public onlyOwner() {
    require(account != 0x05fF2B0DB69458A0750badebc4f9e13aDd608C7F, 'We can not exclude Pancake router.');
    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 already 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 max tx amount

```solidity
function setMaxTxPercent(uint256 maxTxPercent) external onlyOwner() {
    require(maxTxPercent >= 1 && maxTxPercent <= 90, 'maxTxPercent should be in 1 - 90');
    _maxTxAmount = _tTotal.mul(maxTxPercent).div(
        10**2
    );
}
```

Contract owner can change the fees up to 24%

```solidity
function setTaxFeePercent(uint256 taxFee) external onlyOwner() {
    require(taxFee >= 0 && taxFee <= 6, 'taxFee should be in 1 - 6');
    _taxFee = taxFee;
}

function setLiquidityFeePercent(uint256 liquidityFee) external onlyOwner() {
    require(liquidityFee >= 0 && liquidityFee <= 6, 'liquidityFee should be in 1 - 6');
    _liquidityFee = liquidityFee;
}

function setMarketingFeePercent(uint256 marketingFee) external onlyOwner() {
    require(marketingFee >= 0 && marketingFee <= 6, 'marketingFee should be in 1 - 6');
    _MarketingFee = marketingFee;
}

function setProjectFeePercent(uint256 projectFee) external onlyOwner() {
    require(projectFee >= 0 && projectFee <= 6, 'projectFee should be in 1 - 6');
    _ProjectFee = projectFee;
}
```

Contract owner can change MarketingWallet and ProjectWallet address

Current values:

MarketingWallet : 0xae023810ff263bdedb98ae723ff0d4224ba6a5ed

ProjectWallet : 0x86bfcabaa0a4b0fd9be7c3bf315e9b9fece74a91

```solidity
function setMarketingWallet(address newWallet) external onlyOwner() {
    MarketingWallet = newWallet;
}

function setProjectWallet(address newWallet) external onlyOwner() {
    ProjectWallet = newWallet;
}
```

Contract owner can change swap settings

```solidity
function setSwapAndLiquifyEnabled(bool _enabled) public onlyOwner {
    swapAndLiquifyEnabled = _enabled;
    emit SwapAndLiquifyEnabledUpdated(_enabled);
}
```

Contract owner can renounce ownership

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

Contract owner can transfer ownership

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

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 no issue during the first review.

TOKEN DETAILS

Details

Buy fees:	12%
Sell fees:	12%
Max TX:	1,000,000,000
Max Sell:	N/A

Honeypot Risk

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

Rug Pull Risk

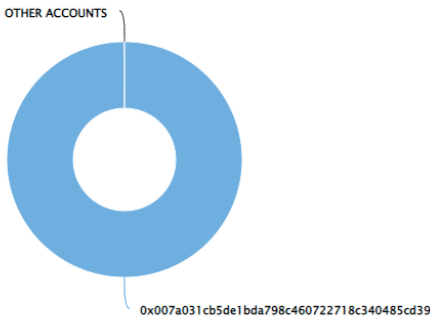|	
Liquidity:	N/A
Holders:	Clean

OCTAGON TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

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

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

OCTAGON Top 10 Token Holders

Source: BscScan.com

OTHER ACCOUNTS

0x007a031cb5de1bda798c460722718c340485cd39

(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	0x007a031cb5de1bda798c460722718c340485cd39	1,000,000,000	100.0000%

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.