

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT





TOKEN OVERVIEW

Fees

• Buy fees: N/A

• Sell fees: N/A

Fees privileges

• Can change 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 at a very low value

Blacklist

· Blacklist function detected

Other privileges

· Can exclude / include from fees

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

0x68D23428406C393Fc8Bc2cCCeC2BE4CBc957DbEA

Network: Polygon (MATIC)

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







- 3 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	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

interface IAccessControl (Role lib included)

- Contract owner can exclude an address from transactions with grantRole function and 0x98db8a220cd0f09badce9f22d0ba7e93edb3d404448cc3560d391ab096ad16e9 argument
- Contract owner can exclude/include wallet(s) from tax

```
function excludeFromFee(address account) public onlyRole(MMER_ROLE) {
    super._excludeFromFee(account);
}

function includeInFee(address account) public onlyRole(MMER_ROLE) {
    return super._includeInFee(account);
}

function _excludeFromFee(address account) public virtual {
    _isExcludedFromFee[account] = true;
}

function _includeInFee(address account) public virtual {
    _isExcludedFromFee[account] = false;
}
```

 Contract owner can set max tx amount and max wallet amount at a a very low value

```
function setMaxTokenHolder(uint256 newMaxTokenHolder_) external onlyRole(MMER_ROLE) {
    require(newMaxTokenHolder_ > 0, "Fee amount must be greater than zero");
    _maxTokenHolder = newMaxTokenHolder_;
}

function setMaxTxAmount(uint256 maxTxAmount_) external onlyRole(MMER_ROLE) {
    require(maxTxAmount_ > 0, "Fee amount must be greater than zero");
    _maxTxAmount = maxTxAmount_;
}
```

Contract owner can change _marketingAddr address

Current value:

_marketingAddr: 0x9bb2d0d6d9efe257686ffbfea759d35928b42da7

```
function setMarketingWallet(address mktAddr_) external onlyRole(DEFAULT_ADMIN_ROLE) {
    super._setMarketingWallet(mktAddr_);
}
```

Contract owner can change fees up to 100%

```
function setTaxBuy(uint256 fee_) external onlyRole(MMER_ROLE) {
    require(fee_ >= 0, "Fee amount must be greater than zero");
    feeBuyPercent = fee;
    emit UpdateTaxInfo("Buy Fee", _msgSender(), _feeBuyPercent);
}
function setTaxSell(uint256 fee ) external onlyRole(MMER ROLE) {
    require(fee_ >= 0, "Fee amount must be greater than zero");
    _feeSellPercent = fee_;
    emit UpdateTaxInfo("Sell Fee", _msgSender(), _feeSellPercent);
function setTaxTransfer(uint256 fee_) external onlyRole(MMER_ROLE) {
    require(fee >= 0, "Fee amount must be greater than zero");
    _feeTransactionPercent = fee_;
    emit UpdateTaxInfo("Transaction Fee", _msgSender(), _feeTransactionPercent);
function setClaimTax(uint256 fee_) external onlyRole(MMER_ROLE) {
    require(fee_ >= 0, "Fee amount must be greater than zero");
    feeClaimPercent = fee;
    emit UpdateTaxInfo("ClaimReward Fee", _msgSender(), _feeClaimPercent);
}
function setBuyTicketTax(uint256 fee_) external onlyRole(MMER_ROLE) {
    require(fee_ >= 0, "Fee amount must be greater than zero");
    feeBuyTicketPercent = fee ;
    emit UpdateTaxInfo("Buy Ticket Fee", _msgSender(), _feeBuyTicketPercent);
function setMarketingBuyTax(uint256 fee_) external onlyRole(MMER_ROLE) {
    require(fee_ >= 0, "Fee amount must be greater than zero");
    walletMKTBuyPercent = fee ;
    emit UpdateTaxInfo("Marketing Buy Ticket Fee", _msgSender(), _walletMKTBuyPercent);
function setMarketingSellTax(uint256 fee_) external onlyRole(MMER_ROLE) {
    require(fee_ >= 0, "Fee amount must be greater than zero");
    _walletMKTSellPercent = fee_;
    emit UpdateTaxInfo("Marketing Claim Reward Fee", _msgSender(), _walletMKTSellPercent);
```

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: N/A

Sell fees: N/A

Max TX: 300,000,000

Max Sell: N/A

Honeypot Risk

Ownership: Owned

Blacklist: Detected

Modify Max TX: Detected

Modify Max Sell: Not detected

Disable Trading: Not detected

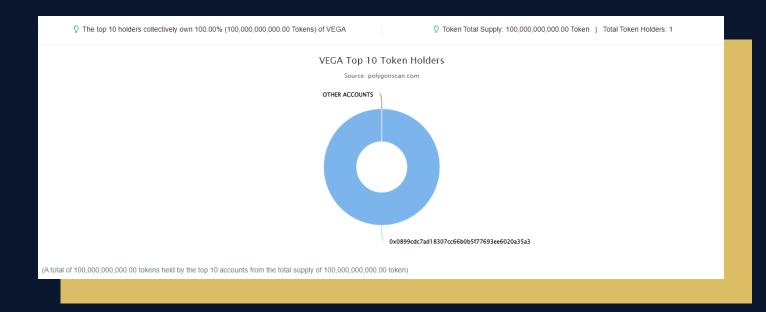
Others

Liquidity: N/A

Holders: Clean



VEGA TOKEN ANALYTICS& TOP 10 TOKEN HOLDERS



Rank	Address	Quantity (Token)	Percentage
1	0x0899cdc7ad18307cc66b0b5f77693ee6020a35a3	100,000,000,000	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.

