



SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT



TraderAI
\$TraderAI

31/01/2023

TOKEN OVERVIEW

Fees

- Buy fees: 5%
- Sell fees: 5%
- Transfer fees 0%

Fees privileges

- Can change buy fees up to 25%, sell fees up to 25% and transfer fees up to 25%

Ownership

- Owned

Minting

- No mint function

Max Tx Amount / Max Wallet Amount

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

Blacklist

- Blacklist function not detected

Other privileges

- Can exclude / include from fees
-

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

0xd0337f703361C23eF7a1F86B646A35200D80003f

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 **31/01/2023**



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	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
- Contract owner can't exclude an address from transactions
- Contract owner can exclude/include wallet from tax

```
function ExcludeAccountFromFees(address account, bool exclude) public onlyTeam{
    require(account!=address(this),"can't Include the contract");
    excludedFromFees[account]=exclude;
    emit ExcludeAccount(account,exclude);
}
```

- Contract owner has to call `EnableTrading()` function to enable trade

```
function EnableTrading() public{
    SetLaunchTimestamp(block.timestamp);
}

function SetLaunchTimestamp(uint Timestamp) public onlyTeam{
    require(block.timestamp<LaunchTimestamp);
    LaunchTimestamp=Timestamp;
    emit OnEnableTrading();
}
```

- Contract owner can change buy fees up to 25%, sell fees up to 25% and transfer fees up to 25%

```
uint constant TAX_DENOMINATOR=1000;
uint constant MAXTAXDENOMINATOR=4;

function SetTaxes(uint buy, uint sell, uint transfer_, uint burn, uint marketing,uint liquidity) public onlyTeam{
    uint maxTax=TAX_DENOMINATOR/MAXTAXDENOMINATOR;
    require(buy<=maxTax&&sell<=maxTax&&transfer_<=maxTax,"Tax exceeds maxTax");
    require(burn+marketing+liquidity==TAX_DENOMINATOR,"Taxes don't add up to denominator");

    buyTax=buy;
    sellTax=sell;
    transferTax=transfer_;
    marketingTax=marketing;
    liquidityTax=liquidity;
    burnTax=burn;
    emit OnSetTaxes(buy, sell, transfer_, burn, marketing,liquidity);
}
```


● Contract owner can change swapTreshold and overLiquifyTreshold values

```
uint public swapTreshold=2;

function setSwapTreshold(uint newSwapTresholdPer mille) public onlyTeam{
    require(newSwapTresholdPer mille<=10);//MaxTreshold= 1%
    swapTreshold=newSwapTresholdPer mille;
}

uint public overLiquifyTreshold=150;

function SetOverLiquifiedTreshold(uint newOverLiquifyTresholdPer mille) public onlyTeam{
    require(newOverLiquifyTresholdPer mille<=1000);
    overLiquifyTreshold=newOverLiquifyTresholdPer mille;
}
```

● Contract owner can change marketingWallet address

Current value:

marketingWallet : 0x9f9d61748af4ea6aee0020b21b1280262b28deac

```
address public marketingWallet;

function ChangeMarketingWallet(address newWallet) public onlyOwner{
    marketingWallet=newWallet;
}
```

● Contract owner can transfer ownership

```
function transferOwnership(address newOwner) public 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 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 no HIGH issues during the first review.

TOKEN DETAILS

Details

Buy fees:	5%
Sell fees:	5%
Transfer fees:	0%
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:	Over 40% unlocked tokens (owner wallet)



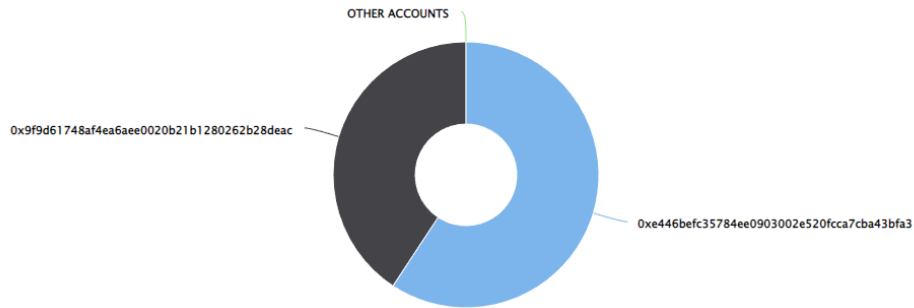
TRADERAI TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

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

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

TraderAI Top 10 Token Holders

Source: BscScan.com



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

Rank	Address	Quantity (Token)	Percentage
1	0xe446bfc35784ee0903002e520fcca7cba43bfa3	592,722	59.2722%
2	0x9f9d61748af4ea6aee0020b21b1280262b28deac	407,278	40.7278%

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.

