freshcoins

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT

Biconomic

$BMB

08/01/2023

TOKEN OVERVIEW

Fees

• Buy fees:	2%
• Sell fees:	3%
• Transfer fees:	5%

Fees privileges

- Can change buy fees up to 49%, sell fees up to 49% and transfer fees up to 49%

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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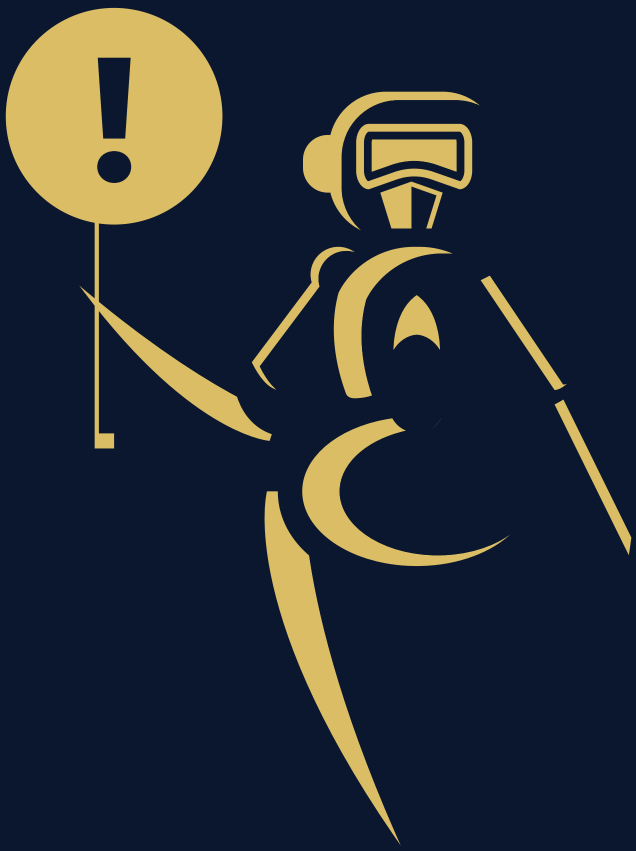
DISCLAIMER

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

0x67EB04F40B05A767e4C399ac52Cb5BE762F7c78b

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 08/01/2023

AUDIT OVERVIEW

83

Security Score

89

Static Scan
Automatic scanning for
common vulnerabilities

80

ERC Scan
Automatic checks for
ERC's conformance

1	High
3	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 mint tokens after initial contract deploy

Contract owner can't exclude an address from transactions

Contract owner can exclude/include wallet from tax

```
function setIsWhitelisted(address account, bool value) external onlyOwner {
        isWhitelisted[account] = value;
        emit SetWhitelisted(account, value);
}
```

Contract owner can burn tokens

```
function burn (uint256 amount_) public onlyOwner {
        _burn (msg.sender, amount_);
}
```

Contract owner can send tokens in multiple wallets

```
function doAirDrop(address[] memory _address, uint256 _amount) onlyOwner public returns (bool) {
        uint256 count = _address.length;

        for (uint256 i = 0; i < count; i++)
        {
                BEP20._transfer(msg.sender, _address [i], _amount);
                emit AirDrop (_address[i], _amount);
        }
        return true;
}
```

Contract owner can change taxes wallet recipient

If the status of the recipient's wallet is true, the prize amount will be sent to that wallet, if not, it will be sent to the token contract address

```
function setRewardWalletOn (bool srwallet) public onlyOwner {
        rewardWalletOn = srwallet;
}
```

Contract owner can set wallet as CEX

```
function setIsCEX(address account, bool value) external onlyOwner {
    isCEX[account] = value;
    emit SetCEX(account, value);
}
```

🟢 Contract owner can set wallet as MM (MarketMaker)

```
function setIsMarketMaker(address account, bool value) external onlyOwner {
      require(account != pair, "Can't modify pair");
      isMarketMaker[account] = value;
      emit SetMarketMaker(account, value);
}
```

🔴 Contract owner can change buy fees up to 49%, sell fees up to 49% and transfer fees up to 49%

```
function setTaxes(uint256 newBuyTax, uint256 newSellTax, uint256 newTransferTax) external onlyOwner {
      require(newBuyTax <= 49 && newSellTax <= 49 && newTransferTax <= 49, "Too high taxes");
      buyTax = newBuyTax;
      sellTax = newSellTax;
      transferTax = newTransferTax;
      emit SetTaxes(buyTax, sellTax, transferTax);
}
```

🟢 Contract owner can change rewardWallet and marketingWallet addresses

Current values:

rewardWallet : 0x6d865fc7cfd8eeec2ecb778a40a64cf98a25d38d

marketingWallet : 0x62f9d9919d3d9e4a778646c6e9d3f0a723a70c2e

```
function setRewardWallet(address newAddress) external onlyOwner {
      require(newAddress != address(0), "New reward pool is the zero address");
      emit SetRewardWallet(newAddress, rewardWallet);
      rewardWallet = newAddress;
}

function setMarketingWallet(address newWallet) external onlyOwner {
      require(newWallet != address(0), "New marketing wallet is the zero address");
      emit SetMarketingWallet(newWallet, marketingWallet);
      marketingWallet = newWallet;
}
```

🟡 Contract owner can withdraw BNB and stuck tokens from smart contract

```
function recoverBNB() external onlyOwner {
      uint256 amount = address(this).balance;
      (bool sent,) = payable(rewardWallet).call{value: amount, gas: transferGas}("");
      require(sent, "Tx failed");
      emit RecoverBNB(amount);
}

function recoverBEP20(IBEP20 token, address recipient) external onlyOwner {
      require(address(token) != address(this), "Can't withdraw Step");
      uint256 amount = token.balanceOf(address(this));
      token.transfer(recipient, amount);
      emit RecoverBEP20(address(token), amount);
}
```

● 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;
}
```

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 issue during the first review.

TOKEN DETAILS

Details

Buy fees:	2%
Sell fees:	3%
Transfer fees:	5%
Max TX:	N/A
Max Sell:	N/A

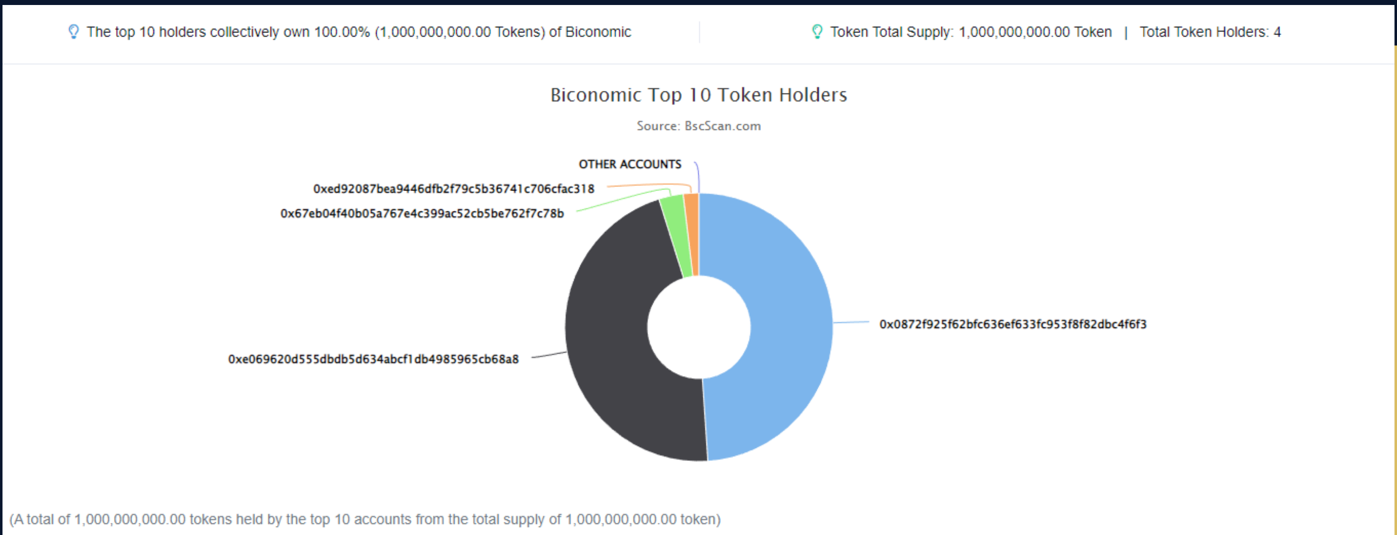
Honeypot Risk

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:	Clean

BICONOMIC TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS



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

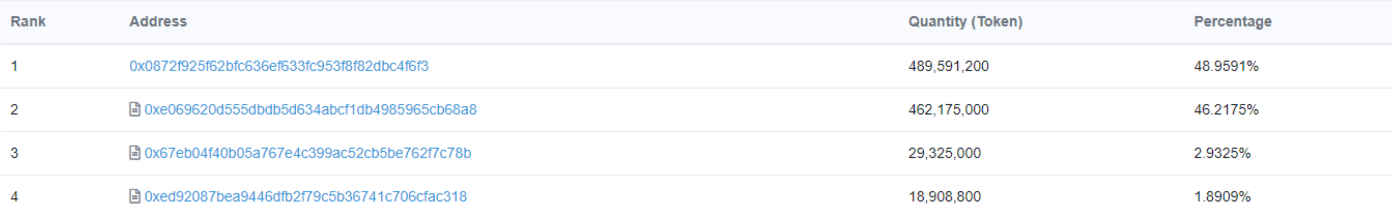
Token Total Supply: 1,000,000,000.00 Token | Total Token Holders: 4

Biconomic Top 10 Token Holders

Source: BscScan.com

OTHER ACCOUNTS
0xed92087bea9446dfb2f79c5b36741c706cfac318
0x67eb04f40b05a767e4c399ac52cb5be762f7c78b
0x0872f925f62bfc636ef633fc953f8f82dbc4f6f3
0xe069620d555dbdb5d634abcf1db4985965cb68a8

(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	0x0872f925f62bfc636ef633fc953f8f82dbc4f6f3	489,591,200	48.9591%
2	0xe069620d555dbdb5d634abcf1db4985965cb68a8	462,175,000	46.2175%
3	0x67eb04f40b05a767e4c399ac52cb5be762f7c78b	29,325,000	2.9325%
4	0xed92087bea9446dfb2f79c5b36741c706cfac318	18,908,800	1.8909%

0xe069620d555dbdb5d634abcf1db4985965cb68a8

46,2175% tokens locked with Team.finance (more details team.finance)

txId: 0xc5da1cae65a7cd766b2e8586c721ea788eda13c528430a104fc7d0d59d847a06

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.