



SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT



MUU
\$MUU

27/08/2022



TOKEN OVERVIEW

Fees

- Buy fees: 6%
- Sell fees: 6%

Fees privileges

- Can set fees up to 21%

Ownership

- Owned

Minting

- No mint function

Max Tx Amount / Max Wallet Amount

- Can set max tx amount and wallet with limit (threshold)

Blacklist

- No blacklist function

Other privileges

- Can exclude from fees
 - Can exclude from tx amount and wallet limitations
-

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

0x2900e6b68658128784B9a1de242F811d938d8bA7

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 **27/08/2022**



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

```
function SetIsFeeExempt(address[] calldata addresses, bool status) external onlyOwner {
    require(addresses.length < 501,"GAS Error: max limit is 500 addresses");
    for (uint256 i; i < addresses.length; ++i) {
        isFeeExempt[addresses[i]] = status;
    }
}
```

- Contract owner can exclude/include wallet from tx limitations

```
function SetIsTxLimitExempt(address[] calldata addresses, bool status) external onlyOwner { //TXLimit
    Exempt will also Wallet Limit Exempt
    require(addresses.length < 501,"GAS Error: max limit is 500 addresses");
    for (uint256 i; i < addresses.length; ++i) {
        isTxLimitExempt[addresses[i]] = status;
    }
}
```

- Contract owner can exclude/include wallet from cooldown

```
function setIsTimelockExempt(address holder, bool exempt) external onlyOwner {
    isTimelockExempt[holder] = exempt;
}
```

- Contract owner can enable/disable and set cooldown between trades

```
function cooldownEnabled(bool _status, uint8 _interval) public onlyOwner { //Buycooldown only not sell
    (Anti HP)
    buyCooldownEnabled = _status;
    cooldownTimerInterval = _interval;
    require(cooldownTimerInterval < 20,"Cannot set more than 20 seconds");
}
```

- Contract owner has to call openTrading function in order to enable trade
Current value: **True** (trading is open)

```
function OpenTrading() public onlyOwner {
    tradingOpen = true;
}
```


● Contract owner can change fees up to 21%

```
function setFees(uint256 _liquidityFee, uint256 _devFee, uint256 _marketingFee, uint256 _buybackFee,
uint256 _stakingFee, uint256 _feeDenominator) external onlyOwner {
    liquidityFee = _liquidityFee;
    devFee = _devFee;
    marketingFee = _marketingFee;
    buybackFee = _buybackFee;
    stakingFee = _stakingFee;
    totalFee = _liquidityFee.add(_devFee).add(_marketingFee).add(_buybackFee).add(_stakingFee);
    feeDenominator = _feeDenominator;
    require(totalFee < 21, "Buy Fees cannot be more than 21%");
}
```

● Contract owner can change autoLiquidityReceiver, marketingFeeReceiver, devFeeReceiver, buybackFeeReceiver and stakingFeeReceiver addresses

```
function setFeeReceivers(address _autoLiquidityReceiver, address _marketingFeeReceiver, address _buyback-
FeeReceiver, address _stakingFeeReceiver, address _devFeeReceiver) external onlyOwner {
    autoLiquidityReceiver = _autoLiquidityReceiver;
    marketingFeeReceiver = _marketingFeeReceiver;
    buybackFeeReceiver = _buybackFeeReceiver;
    stakingFeeReceiver = _stakingFeeReceiver;
    devFeeReceiver = _devFeeReceiver;
}
```

● Contract owner can change max tx amount and max wallet limitations

```
function setMaxWalletPercent_base1000(uint256 maxWallPercent_base1000) external onlyOwner {
    require(maxWallPercent_base1000 >= 10, "Cannot set max wallet less than 1%");
    _maxWalletToken = (_totalSupply * maxWallPercent_base1000) / 1000;
}

function setMaxTxPercent_base1000(uint256 maxTXPercentage_base1000) external onlyOwner {
    require(maxTXPercentage_base1000 >= 10, "Cannot set max transaction less than 1%");
    _maxTxAmount = (_totalSupply * maxTXPercentage_base1000) / 1000;
}
```

● Contract owner can set multiplier value on fees (with threshold)

```
function setMultipliers(uint256 _buy, uint256 _sell, uint256 _trans) public onlyOwner {
    sellMultiplier = _sell;
    buyMultiplier = _buy;
    transferMultiplier = _trans;
    require(totalFee.mul(buyMultiplier).div(100) < 21, "Tax cannot be more than 21%");
    require(totalFee.mul(sellMultiplier).div(100) < 21, "Tax cannot be more than 21%");
}
```

● Contract owner can change swap settings

```
function setSwapBackSettings(bool _enabled, uint256 _amount) external onlyOwner {
    swapEnabled = _enabled;
    swapThreshold = _amount;
}
```

● Contract owner can allow wallet to trade when trading is closed

Current value: **True** (trading is open)

```
function manageAuthorizations(address account, bool status) public virtual onlyOwner {
    authorizations[account] = status;
}
.
.
.

// line 321 in _transferFrom function

if(!authorizations[sender] && !authorizations[recipient]){
    require(tradingOpen,"Trading not open yet");
}
```

● Contract owner can renounce ownership

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

● Contract owner can transfer ownership

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

TOKEN DETAILS

Details

Buy fees:	6%
Sell fees:	6%
Max TX:	30,000,000,000
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



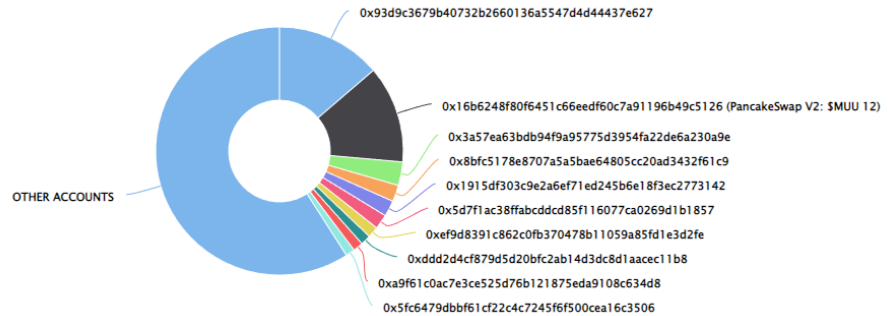
MUU TOKEN ANALYTICS & TOP 10 TOKEN HOLDERS

The top 10 holders collectively own 40.91% (409,099,345,386.89 Tokens) of MUU


Token Total Supply: 1,000,000,000,000.00 Token | Total Token Holders: 1,131

MUU Top 10 Token Holders

Source: BscScan.com



(A total of 409,099,345,386.89 tokens held by the top 10 accounts from the total supply of 1,000,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0x93d9c3679b40732b2660136a5547d4d44437e627	137,226,809,106.980077331	13.7227%
2	 PancakeSwap V2: \$MUU 12	126,962,812,914.711447023	12.6963%
3	0x3a57ea63bdb94f9a95775d3954fa22de6a230a9e	30,671,358,113	3.0671%
4	0x8bfc5178e8707a5a5bae64805cc20ad3432f61c9	21,567,200,120	2.1567%
5	0x1915df303c9e2a6ef71ed245b6e18f3ec2773142	20,812,489,735	2.0812%
6	0x5d7f1ac38ffabccddcd85f116077ca0269d1b1857	19,205,964,915.7628	1.9206%
7	0xef9d8391c862c0fb370478b11059a85fd1e3d2fe	14,435,423,706.0606	1.4435%
8	0xdddd2d4cf879d5d20bfc2ab14d3dc8d1aacec11b8	13,220,893,289.677426127	1.3221%
9	0xa9f61c0ac7e3ce525d76b121875eda9108c634d8	13,132,094,400	1.3132%
10	0x5fc6479dbbf61cf22c4c7245f6f500cea16c3506	11,864,299,085.7012	1.1864%

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.

