



# Audit Report

## **MetaTiger**

December 2021

Type       BEP20

Address     0x6d373B0b98e5db325db1c6316110A68056F04f3a

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# Table of Contents

<b>Table of Contents</b>	<b>1</b>
<b>Contract Review</b>	<b>2</b>
<b>Audit Updates</b>	<b>2</b>
<b>ELFM - Exceed Limit Fees Manipulation</b>	<b>3</b>
<b>Description</b>	<b>4</b>
<b>Recommendation</b>	<b>4</b>
<b>ST - Stop Transactions</b>	<b>4</b>
<b>Description</b>	<b>5</b>
<b>Recommendation</b>	<b>5</b>
<b>Contract Diagnostics</b>	<b>6</b>
<b>Contract Functions</b>	<b>7</b>
<b>Contract Flow</b>	<b>16</b>
<b>Domain Info</b>	<b>17</b>
<b>Summary</b>	<b>18</b>
<b>Disclaimer</b>	<b>19</b>
<b>About Coinscope</b>	<b>20</b>

# Contract Review

<b>Contract Name</b>	METATIGER
<b>Compiler Version</b>	v0.8.10+commit.fc410830
<b>Optimization</b>	200 runs
<b>Licence</b>	NONE
<b>Explorer</b>	<a href="https://bscscan.com/token/0x6d373b0b98e5db325db1c6316110a68056f04f3a">https://bscscan.com/token/0x6d373b0b98e5db325db1c6316110a68056f04f3a</a>
<b>Symbol</b>	METATIGER
<b>Decimals</b>	9
<b>Total Supply</b>	1,000,000,000,000,000
<b>Website</b>	<a href="https://metatiger.vip/">https://metatiger.vip/</a>

# Audit Updates

<b>Initial Audit</b>	19th of December 2021
<b>Corrected</b>	

# Contract Analysis

● Critical
 ● Medium
 ● Pass

Severity	Code	Description
<span style="color: blue;">●</span>	MT	Contract Owner is not able to mint new tokens
<span style="color: blue;">●</span>	BT	Contract Owner is not able to burn tokens from specific wallet
<span style="color: red;">●</span>	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (10%)
<span style="color: orange;">●</span>	ST	Contract Owner is not able to stop or pause transactions
<span style="color: blue;">●</span>	OCTD	Contract Owner is not able to transfer tokens from specific address
<span style="color: blue;">●</span>	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
<span style="color: blue;">●</span>	BC	Contract Owner is not able to blacklist wallets from selling

## ELFM - Exceed Limit Fees Manipulation

<b>Criticality</b>	high
<b>Location</b>	<a href="https://bscscan.com/address/0x6d373b0b98e5db325db1c6316110a68056f04f3a#code#L1202">https://bscscan.com/address/0x6d373b0b98e5db325db1c6316110a68056f04f3a#code#L1202</a>

### Description

The contract owner has the authority to increase fees to any value without limitations. This can be used in a malicious way and disturb the holders' transactions.

```
function setFeePercent(uint256 taxFee, uint256 liquidityFee, uint256 marketingFee) external onlyOwner() {  
    _taxFee = taxFee;  
    _liquidityFee = liquidityFee;  
    _marketingFee = marketingFee;  
}
```

### Recommendation

The contract could have a limitation to require the fees to not exceed a value more than 10%.

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. That risk can be prevented by temporarily locking the contract or renouncing ownership.

## ST - Stop Transactions

<b>Criticality</b>	medium
<b>Location</b>	<a href="https://bscscan.com/address/0x6d373b0b98e5db325db1c6316110a68056f04f3a#code#L1212">https://bscscan.com/address/0x6d373b0b98e5db325db1c6316110a68056f04f3a#code#L1212</a>

### Description

The contract owner has the authority to stop transactions for all users excluding the owner. The owner may take advantage of it by setting the `_maxTxAmount` to a very small value. There should be some limitation to a minimum acceptable value that the owner can set.

```
function setMaxTxAmount(uint256 maxTxAmount) external onlyOwner() {  
    require(maxTxAmount > 0, "transaction amount must be greater than  
zero");  
    _maxTxAmount = maxTxAmount * 10**9;  
}
```

### 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. That risk can be prevented by temporarily locking the contract or renouncing ownership.

## Contract Diagnostics

Pass	Name
✓	Integer Underflow
✓	Parity Multisig Bug
✓	Callstack Depth Attack
✓	Transaction-Ordering Dependency
✓	Timestamp Dependency
✓	Re-Entrancy

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
		Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	geUnlockTime	Public		-
	lock	Public	✓	onlyOwner
	unlock	Public	✓	-
IERC20	Interface			



	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
SafeMath	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
Address	Library			
	isContract	Internal		

	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	_functionCallWithValue	Private	✓	
IUniswapV2Factory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Pair	Interface			

	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-

	price1CumulativeLast	External		-
	kLast	External		-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
IUniswapV2Router01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-

	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Router02	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-

METATIGER	Implementation	Context, IERC20, Ownable		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	isExcludedFromReward	Public		-
	totalFees	Public		-
	deliver	Public	✓	-
	reflectionFromToken	Public		-

	tokenFromReflection	Public		-
	excludeFromReward	Public	✓	onlyOwner
	includeInReward	External	✓	onlyOwner
	_transferBothExcluded	Private	✓	
		External	Payable	-
	_reflectFee	Private	✓	
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	_takeLiquidity	Private	✓	
	calculateTaxFee	Private		
	calculateLiquidityFee	Private		
	removeAllFee	Private	✓	
	restoreAllFee	Private	✓	
	isExcludedFromFee	Public		-
	_approve	Private	✓	
	_transfer	Private	✓	

	swapAndLiquify	Private	✓	lockTheSwap
	swapTokensForEth	Private	✓	
	transferToAddressETH	Private	✓	
	addLiquidity	Private	✓	
	_tokenTransfer	Private	✓	
	_transferStandard	Private	✓	
	takeMarketing	Private	✓	
	_transferToExcluded	Private	✓	
	_transferFromExcluded	Private	✓	
	excludeFromFee	Public	✓	onlyOwner
	includeInFee	Public	✓	onlyOwner
	setMarketingWallet	External	✓	onlyOwner
	setFeePercent	External	✓	onlyOwner
	setSwapTokensAtAmount	External	✓	onlyOwner
	setMaxTxAmount	External	✓	onlyOwner
	setSwapAndLiquifyEnabled	Public	✓	onlyOwner



# Contract Flow



## Domain Info

<b>Domain Name</b>	METATIGER.VIP
<b>Registry Domain ID</b>	D_0265BF95_7DE082008E594A669EE6E887E0C07712_0000017DC0D8EE44-VIP
<b>Registrar WHOIS Server</b>	whois.namecheap.com
<b>Registrar URL</b>	http://www.namecheap.com
<b>Updated Date</b>	2021-12-16T01:28:06Z
<b>Creation Date</b>	2021-12-16T01:26:22Z
<b>Registry Expiry Date</b>	2022-12-16T01:26:22Z
<b>Registrar</b>	NameCheap, Inc.
<b>Registrar IANA ID</b>	1068

The domain has been created almost 10 days before the analysis of the audit. It is set for expiration in 1 year.

There is no public billing information, the creator is protected by the privacy settings.

## Summary

MetaTiger is a project aiming to integrate into the Metaverse. Focused on gameFi and NFTs, they plan on releasing their mobile application with the game. The token has a friendly and growing community. The contract analysis showed no compiler errors, 1 Critical and 1 medium threat issues. There are some functions that can be abused by the owner, like manipulating fees to any amount without limitations, or changing the amount of tokens that can be transferred to any number as well. A multi-wallet signing pattern will provide security against potential hacks. Temporarily locking the contract or renouncing ownership will eliminate all the contract threats.

# Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

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## About Coinscope

CoinScope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

CoinScope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>