Cyberscope

Audit Report

RISING BIRD

April 2022

Type	BEP20
Network	BSC
Address	0x33555617F481be5973E93b432d8ecEa2D20524be
Audited by	© cyberscope

Table of Contents

Table of Contents 1
Contract Review 3
Source Files 3
Audit Updates 3
Contract Analysis 4
ST - Stop Transactions 5
Description 5
Recommendation 5
Contract Diagnostics 6
L01 - Public Function could be Declared External 7
Description 7
Recommendation 7
L02 - State Variables could be Declared Constant 8
Description 8
Recommendation 8
L04 - Conformance to Solidity Naming Conventions 9
Description 9
Recommendation 9
L06 - Missing Events Access Control 10
Description 10
Recommendation 10
L07 - Missing Events Arithmetic 11
Description 11
Recommendation 11
L09 - Dead Code Elimination 12
Description 12

Recommendation 12
L13 - Divide before Multiply Operation 13
Description 13
Recommendation 13
L14 - Uninitialized Variables in Local Scope 14
Description 14
Recommendation 14
Contract Functions 15
Contract Flow 21
Domain Info 22
Summary 23
Disclaimer 24
About Cyberscope 25

Contract Review

Contract Name	RISING
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	200 runs
Licence	Unlicense
Explorer	https://bscscan.com/token/0x33555617F481be5973E93b432d8ecEa2D20524be
Symbol	RISING
Decimals	9
Total Supply	100,000,000,000
Domain	risingbird.co.uk

Source Files

Filename	**SHA256**
contract.sol	e5c863404037d9543e13325169ae641dd373cc863f40d3e204f7ce6dc7637a1b

Audit Updates

Initial Audit	13th April 2022
Corrected	

Contract Analysis

Critical Medium Minor Pass

Severity	Code	Description
●	ST	Contract Owner is not able to stop or pause transactions
●	OCTD	Contract Owner is not able to transfer tokens from specific address
●	OTUT	Owner Transfer User's Tokens
●	ELFM	Contract Owner is not able to increase fees more than a reasonable percent (25%)
●	ULTW	Contract Owner is not able to increase the amount of liquidity taken by dev wallet more than a reasonable percent
●	MT	Contract Owner is not able to mint new tokens
●	BT	Contract Owner is not able to burn tokens from specific wallet
●	BC	Contract Owner is not able to blacklist wallets from selling

ST - Stop Transactions

Criticality	medium
Location	contract.sol#L1551

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 zero.

```
  if (antiwhaleEnabled && ((from != owner() && to != owner()) ||
!(_isExcludedFromTxLimit[from]))) {
    require(
      amount <= _maxTxAmount,
      'Transfer amount exceeds the maxTxAmount.'
    );
  }
```

Recommendation

The contract could embody a check for not allowing setting the _maxTxAmount less than a reasonable amount. A suggested implementation could check that the maximum amount should be more than a fixed percentage of the total supply.

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

Critical Medium Minor

Severity	Code	Description
	L01	Public Function could be Declared External
	L02	State Variables could be Declared Constant
	L04	Conformance to Solidity Naming Conventions
	L06	Missing Events Access Control
	L07	Missing Events Arithmetic
	L09	Dead Code Elimination
	L13	Divide before Multiply Operation
	L14	Uninitialized Variables in Local Scope

L01 - Public Function could be Declared External

Criticality	minor
Location	contract.sol#L551,560,566,574,579,587,1046,1050,1054,1058,1062,1075,1079,1089,1098,1107,1116,1134,1147,1163,1167,1171,1188,1219,1269,1276,1280,1284,1317,1484,1489,1513,1529,1696,1704,1711,1714,1751

Description

Public functions that are never called by the contract should be declared external to save gas.

```
setNumTokensell
isExcludedFromMaxWallet
setExcludedMaxWallet
setBuyFees
setSellFee
enableAntiwhale
isExcludedFromFee
getMarketingAddr
setTeamWallet
...
```

Recommendation

Use the external attribute for functions never called from the contract

L02 - State Variables could be Declared Constant

Criticality	minor
Location	contract.sol#L958,956,957,952

Description

Constant state variables should be declared constant to save gas.

```
_tTotal
_symbol
_name
_decimals
```

Recommendation

Add the constant attribute to state variables that never change.

L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L657,659,690,734,1330,1337,1468,1473,961,963,965,968,971,989,995,996,1001

Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow _ at the beginning of the mixed_case match for private variables and unused parameters.

```
_maxTxAmount
_isExcludedFromMaxWalletLimit
UniswapV2Pair
_teamWallet
_teamFee
_marketingFee
_liquidityFee
antiSniping_failsafe
_taxFee
...
```

Recommendation

Follow the Solidity naming convention.
https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions

L06 - Missing Events Access Control

Criticality	minor
Location	contract.sol#L566

Description

Detected missing events for critical access control parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
_multiSig = newMultisig
```

Recommendation

Emit an event for critical parameter changes.

L07 - Missing Events Arithmetic

Criticality	minor
Location	contract.sol#L1062,1312,1696,1704,1751

Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
numTokensSellToAddToLiquidity = value
teamFeeBuy = team
teamFeeSell = team
_maxTxAmount = _tTotal.mul(maxTxPercent).div(100 * 10 ** 2)
maxWalletAmount = val
```

Recommendation

Emit an event for critical parameter changes.

L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L226,88,101,120,140,196,214,163,178,30,59

Description

Functions that are not used in the contract, and make the code's size bigger.

```
sendValue
isContract
functionStaticCall
functionDelegateCall
functionCallWithValue
functionCall
_verifyCallResult
...
```

Recommendation

Remove unused functions.

L13 - Divide before Multiply Operation

Criticality	minor
Location	contract.sol#L1613

Description

Performing divisions before multiplications may cause lose of prediction.

```
teamBal =
contractTokenBalance.mul(_teamFee).div(_marketingFee.add(_liquidityFee).add(_tea
mFee))
marketingBalance =
contractTokenBalance.mul(_marketingFee).div(_marketingFee.add(_liquidityFee).add
(_teamFee))
```

Recommendation

The multiplications should be prior to the divisions.

L14 - Uninitialized Variables in Local Scope

Criticality	minor
Location	contract.sol#L1358,1357

Description

The are variables that are defined in the local scope and are not initialized.

```
my_tVector
my_rVector
```

Recommendation

All the local scoped variables should be initialized.

Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
Address	Library			
	isContract	Internal		
	sendValue	Internal	✓	
	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionStaticCall	Internal		
	functionStaticCall	Internal		
	functionDelegateCall	Internal	✓	
	functionDelegateCall	Internal	✓	
	_verifyCallResult	Private		
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		
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	setMultisigOwnership	Public	✓	onlyOwner
	geUnlockTime	Public		-
	lock	Public	✓	onlyOwner
	unlock	Public	✓	-
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	✓	-

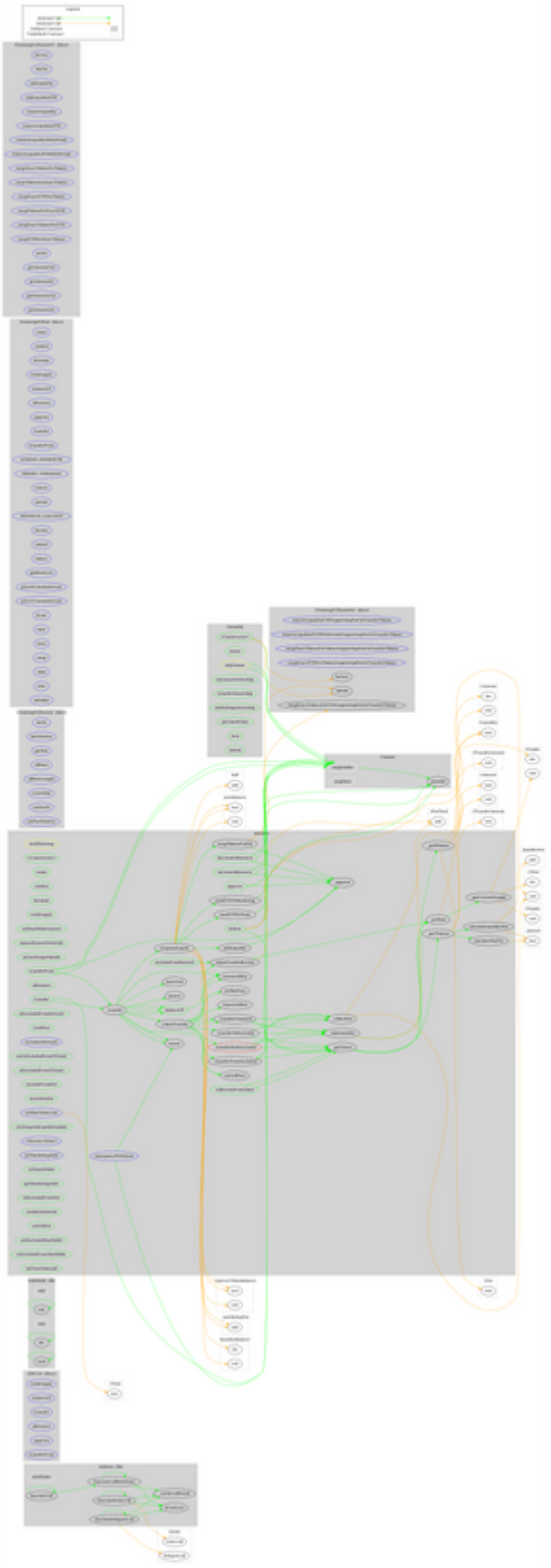
	transfer	External	✓	-
	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	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	✓	-
RISING	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	setMaxWalletAmount	Public	✓	onlyOwner
	launch	Internal	✓	
	launched	Internal		
	manualLaunchOverride	Public	✓	onlyOwner
	setAntiSnipeFailsafe	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	✓	
	setIsExcludedFromTXLimit	Public	✓	onlyOwner
	isExcludedFromTXLimit	Public		-
	excludeFromFee	Public	✓	onlyOwner
	includeInFee	Public	✓	onlyOwner
	setBuyFees	Private	✓	
	setSellFees	Private	✓	
	setMaxTxPercent	External	✓	onlyOwner
	setSwapAndLiquifyEnabled	Public	✓	onlyOwner
	<Receive Ether>	External	Payable	-
	_reflectFee	Private	✓	
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	_takeLiquidity	Private	✓	
	calculateTaxFee	Private		
	calculateLiquidityFee	Private		
	setMarketingAddr	External	✓	onlyOwner
	setTeamWallet	Public	✓	onlyOwner
	getMarketingAddr	Public		-
	removeAllFee	Private	✓	
	restoreAllFee	Private	✓	
	isExcludedFromFee	Public		-
	_approve	Private	✓	

	enableAntiwhale	Public	✓	onlyOwner
	_transfer	Private	✓	
	swapAndLiquify	Private	✓	lockTheSwap
	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	
	sendETHToMarketing	Private	✓	
	sendETHToTeam	Private	✓	
	setSellFee	Public	✓	onlyOwner
	setBuyFees	Public	✓	onlyOwner
	setExcludedMaxWallet	Public	✓	onlyOwner
	isExcludedFromMaxWallet	Public		-
	_tokenTransfer	Private	✓	
	setNumTokensell	Public	✓	onlyOwner
	_transferStandard	Private	✓	
	_transferToExcluded	Private	✓	
	_transferFromExcluded	Private	✓	
	emergencyWithdraw	External	✓	onlyOwner

Contract Flow



Domain Info

Domain Name	risingbird.co.uk
Registry Domain ID	-
Creation Date	2022-02-19T00:00:00+00:00
Updated Date	2022-03-28T00:00:00+00:00
Registry Expiry Date	2023-02-19T00:00:00+00:00
Registrar WHOIS Server	-
Registrar URL	-
Registrar	-
Registrar IANA ID	-

The domain has been created about 2 months before the creation of the audit. It will expire in 10 months.

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

Summary

RISING BIRD is an interesting project that has a friendly and growing community. The Smart Contract analysis reported one issue. The contract owner can stop the transactions. Other than that, the contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 25% fees.

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.

Cyberscope team provides no guarantees against the sale of team tokens or the removal of liquidity by the project audited in this document. Always Do your own research and protect yourselves from being scammed.

The Cyberscope team has audited this project for general information and only expresses their opinion based on similar projects and checks from popular diagnostic tools. Under no circumstances did Cyberscope receive a payment to manipulate those results or change the awarding badge that we will be adding in our website.

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The Cyberscope team disclaims any liability for the resulting losses.

About Cyberscope

Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

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.

Cyberscope and Coinscope are aiming to make crypto discoverable and efficient globally. They provides all the essential tools to assist users draw their own conclusions.



The Cyberscope team

https://www.cyberscope.io