



Cyberscope

# Audit Report

## **MinersZone**

March 2022

SHA256     45c4b7bb08bc6a926dc086c5859395dc3be7a806aa9e073e04b9310bb20290f0

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## Source Files

Filename	SHA256
contract.sol	45c4b7bb08bc6a926dc086c5859395dc3be7a806aa9e073e04b9310bb20290f0

## Audit Updates

Initial Audit	28th March 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

# 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
●	L05	Unused State Variable
●	L07	Missing Events Arithmetic
●	L09	Dead Code Elimination
●	L14	Uninitialized Variables in Local Scope

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L201,206,212,216,220,227,572,576,580,584 and 14 more

### Description

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

```
manualBurn
setSwapAndLiquifyEnabled
includeInFee
excludeFromFee
isExcludedFromFee
reflectionFromToken
minimumTokensBeforeSwapAmount
totalFees
decreaseAllowance
...
```

### Recommendation

Use the external attribute for functions never called from the contract

## L02 - State Variables could be Declared Constant

**Criticality**

minor

**Location**

contract.sol#L479,477,496,495,497,478,471,482,975,453

### Description

Constant state variables should be declared constant to save gas.

```
deadWallet  
deadAddress  
_taxFee  
_tTotal  
_symbol  
_salegameRewardFee  
_saleTaxFee  
_saleLiquidityFee  
_name  
...
```

### Recommendation

Add the constant attribute to state variables that never change.



## L04 - Conformance to Solidity Naming Conventions

**Criticality**

minor

**Location**

contract.sol#L271,272,288,309,463,635,883,887,942,947 and 19 more

### 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.

```
_salegameRewardFee  
_saleLiquidityFee  
_saleTaxFee  
_gameRewardFee  
_liquidityFee  
_value  
_tokenAddress  
ApproveERC20Token1  
_to  
...
```

### Recommendation

Follow the Solidity naming convention.

<https://docs.soliditylang.org/en/v0.4.25/style-guide.html#naming-conventions>

## L05 - Unused State Variable

**Criticality**

minor

**Location**

contract.sol#L483,495,499

### Description

There are segments that contain unused state variables.

```
totalSwapableSaleFee  
_saleTaxFee  
_previousTaxFee
```

### Recommendation

Remove unused state variables.

## L07 - Missing Events Arithmetic

**Criticality**

minor

**Location**

contract.sol#L942

### 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.

```
minimumTokensBeforeSwap = _minimumTokensBeforeSwap
```

### Recommendation

Emit an event for critical parameter changes.

## L09 - Dead Code Elimination

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L159,142,146,150,154,122,133,978

### Description

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

```
swapETHForTokens  
sendValue  
isContract  
functionCallWithValue  
functionCall  
_functionCallWithValue
```

### Recommendation

Remove unused functions.

## L14 - Uninitialized Variables in Local Scope

**Criticality**

minor

**Location**

contract.sol#L1038

### Description

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

```
sendAmount
```

### Recommendation

All the local scoped variables should be initialized.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>IPinkAntiBot</b>	Interface			
	setTokenOwner	External	✓	-
	onPreTransferCheck	External	✓	-
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>SafeMath</b>	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
	mod	Internal		
	mod	Internal		
<b>Address</b>	Library			
	isContract	Internal		
	sendValue	Internal	✓	

	functionCall	Internal	✓	
	functionCall	Internal	✓	
	functionCallWithValue	Internal	✓	
	functionCallWithValue	Internal	✓	
	_functionCallWithValue	Private	✓	
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	getUnlockTime	Public		-
	getTime	Public		-
	lock	Public	✓	onlyOwner
	unlock	Public	✓	-
<b>IUniswapV2Factory</b>	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
<b>IUniswapV2Pair</b>	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	✓	-
<b>IUniswapV2Router01</b>	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	-

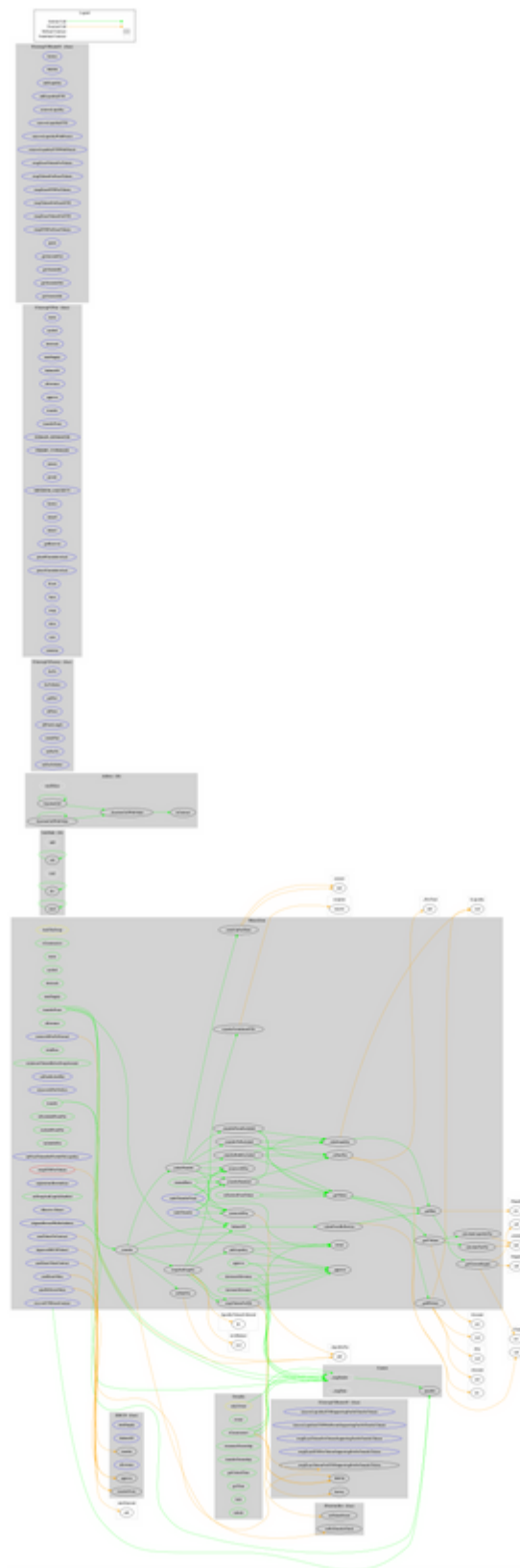


	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
<b>IUniswapV2Router02</b>	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>MinersZone</b>	Implementation	Context, IERC20, Ownable		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	totalFees	Public		-
	minimumTokensBeforeSwapAmount	Public		-
	setEnableAntiBot	External	✓	onlyOwner
	reflectionFromToken	Public		-

	tokenFromReflection	Internal		
	_approve	Private	✓	
	_transfer	Private	✓	
	swapAndLiquify	Public	✓	lockTheSwap
	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	
	_tokenTransfer	Private	✓	
	countUpFeeShare	Private	✓	
	_transferStandard	Private	✓	
	_transferToExcluded	Private	✓	
	_transferFromExcluded	Private	✓	
	_transferBothExcluded	Private	✓	
	_reflectFee	Private	✓	
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	_takeLiquidity	Private	✓	
	calculateTaxFee	Private		
	calculateLiquidityFee	Private		
	removeAllFee	Private	✓	
	restoreAllFee	Private	✓	
	removeAllFeeToZero	External	✓	onlyOwner
	restoreAllFeeToNormal	External	✓	onlyOwner
	setSaleFee	Private	✓	
	isExcludedFromFee	Public		-
	excludeFromFee	Public	✓	onlyOwner
	includeInFee	Public	✓	onlyOwner
	setNumTokensSellToAddToLiquidity	External	✓	onlyOwner
	setgameRewardWalletAddress	External	✓	onlyOwner
	setpinkAntiBotAddress	External	✓	onlyOwner
	setSwapAndLiquifyEnabled	Public	✓	onlyOwner
	transferToAddressETH	Private	✓	
	<Receive Ether>	External	Payable	-

	swapETHForTokens	Private	✓	
	sendSameValue	External	✓	onlyOwner
	sendTokenToContract	External	Payable	-
	sendSameValueContract	External	✓	onlyOwner
	sendDifferentValue	External	✓	onlyOwner
	ApproveERC20Token1	External	✓	onlyOwner
	recoverETHfromContract	External	✓	onlyOwner
	multiTransfer	External	✓	onlyOwner
	multiTransferFixed	External	✓	onlyOwner
	manualBurn	Public	✓	onlyOwner

# Contract Flow



## Domain Info

<b>Domain Name</b>	minerszone.io
<b>Registry Domain ID</b>	151142ce74eb429f9e80e2e8abc029a9-DONUTS
<b>Creation Date</b>	2022-02-05T15:04:31Z
<b>Updated Date</b>	2022-02-10T15:05:22Z
<b>Registry Expiry Date</b>	2023-02-05T15:04:31Z
<b>Registrar WHOIS Server</b>	whois.godaddy.com/
<b>Registrar URL</b>	<a href="http://www.godaddy.com/domains/search.aspx?ci=8990">http://www.godaddy.com/domains/search.aspx?ci=8990</a>
<b>Registrar</b>	GoDaddy.com, LLC
<b>Registrar IANA ID</b>	146

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

The Smart Contract analysis reported no compiler error or critical issues. 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 fixed fee of 5% only for the sales. The contract contains some functionality that could be eliminated. For instance, since the `_taxFee` is fixed to zero, the entire mechanism that is taking the `_taxFee` could be eliminated.

## Disclaimer

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The Cyberscope team disclaims any liability for the resulting losses.

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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>