



Cyberscope

# Audit Report

## Max ROI

October 2022

Type      BEP20

Network    BSC

Address    0xBfB696f82C1D7E672FC4ca8370c1760e8813aD7F

Audited by   © cyberscope

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# Contract Review

<b>Contract Name</b>	MaxROI
<b>Compiler Version</b>	v0.8.17+commit.8df45f5f
<b>Optimization</b>	200 runs
<b>Licence</b>	MIT
<b>Explorer</b>	<a href="https://bscscan.com/token/0xBfB696f82C1D7E672FC4ca8370c1760e8813aD7F">https://bscscan.com/token/0xBfB696f82C1D7E672FC4ca8370c1760e8813aD7F</a>
<b>Symbol</b>	mxR
<b>Decimals</b>	18
<b>Total Supply</b>	99,999,999,999
<b>Domain</b>	safeinvantage.com

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	25fbbe7d558a71fa01ebdd3349a52a3b7cb8cc338ba03adb64cb26198d3ffbd4

## Audit Updates

<b>Initial Audit</b>	15th October 2022 <a href="https://github.com/cyberscope-io/audits/blob/main/1-mxr/v1/audit.pdf">https://github.com/cyberscope-io/audits/blob/main/1-mxr/v1/audit.pdf</a>
<b>Corrected phase 1</b>	17th October 2022 <a href="https://github.com/cyberscope-io/audits/blob/main/1-mxr/v2/audit.pdf">https://github.com/cyberscope-io/audits/blob/main/1-mxr/v2/audit.pdf</a>
<b>Corrected phase 2</b>	19th October 2022

# Contract Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Unresolved
●	OCTD	Transfers Contract's Tokens	Passed
●	OTUT	Transfers User's Tokens	Passed
●	ELFM	Exceeds Fees Limit	Passed
●	ULTW	Transfers Liquidity to Team Wallet	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

## ST - Stops Transactions

<b>Criticality</b>	critical
<b>Location</b>	contract.sol#L779
<b>Status</b>	Unresolved

### Description

The contract has the ability to set a max transaction cap on sales. The cap is defined by the amount of tokens that is going to be transferred in comparison with the user's holdings. The table depicts the ranking amounts. Hence, the users will be able to buy tokens but sale 5% or 1% of their holdings once per period. The period is defined by the contract owner. As a result, the contract may operate similarly to a honeypot.

Rank	Min amount	Max Amount	Cap
1	0	5000000	5%
2	5000001	totalSupply	1%

```
require((currTradeVolume + amount) <= (balanceOf(from) * cap) / BASIS_POINTS,  
"Epoch cap exceeded");
```

### Recommendation

The contract should allow the users to trade a reasonable amount of tokens. An acceptable percentage is 75% of their holdings.

# Contract Diagnostics

● Critical   ● Medium   ● Minor / Informative

Severity	Code	Description	Status
●	L01	Public Function could be Declared External	Unresolved
●	L04	Conformance to Solidity Naming Conventions	Unresolved
●	L09	Dead Code Elimination	Unresolved

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L79,87,258,266,283,290,309,332,354,377,397
<b>Status</b>	Unresolved

### Description

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

```
renounceOwnership  
transferOwnership  
name  
symbol  
decimals  
totalSupply  
transfer  
approve  
transferFrom  
...
```

### Recommendation

Use the external attribute for functions never called from the contract.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L662,663,675,682
<b>Status</b>	Unresolved

### 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.

```
_instantRelease  
_reinvestPerc  
_epochLength  
_reinvestWallet
```

### Recommendation

Follow the Solidity naming convention.

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



## L09 - Dead Code Elimination

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L481
<b>Status</b>	Unresolved

### Description

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

```
_burn
```

### Recommendation

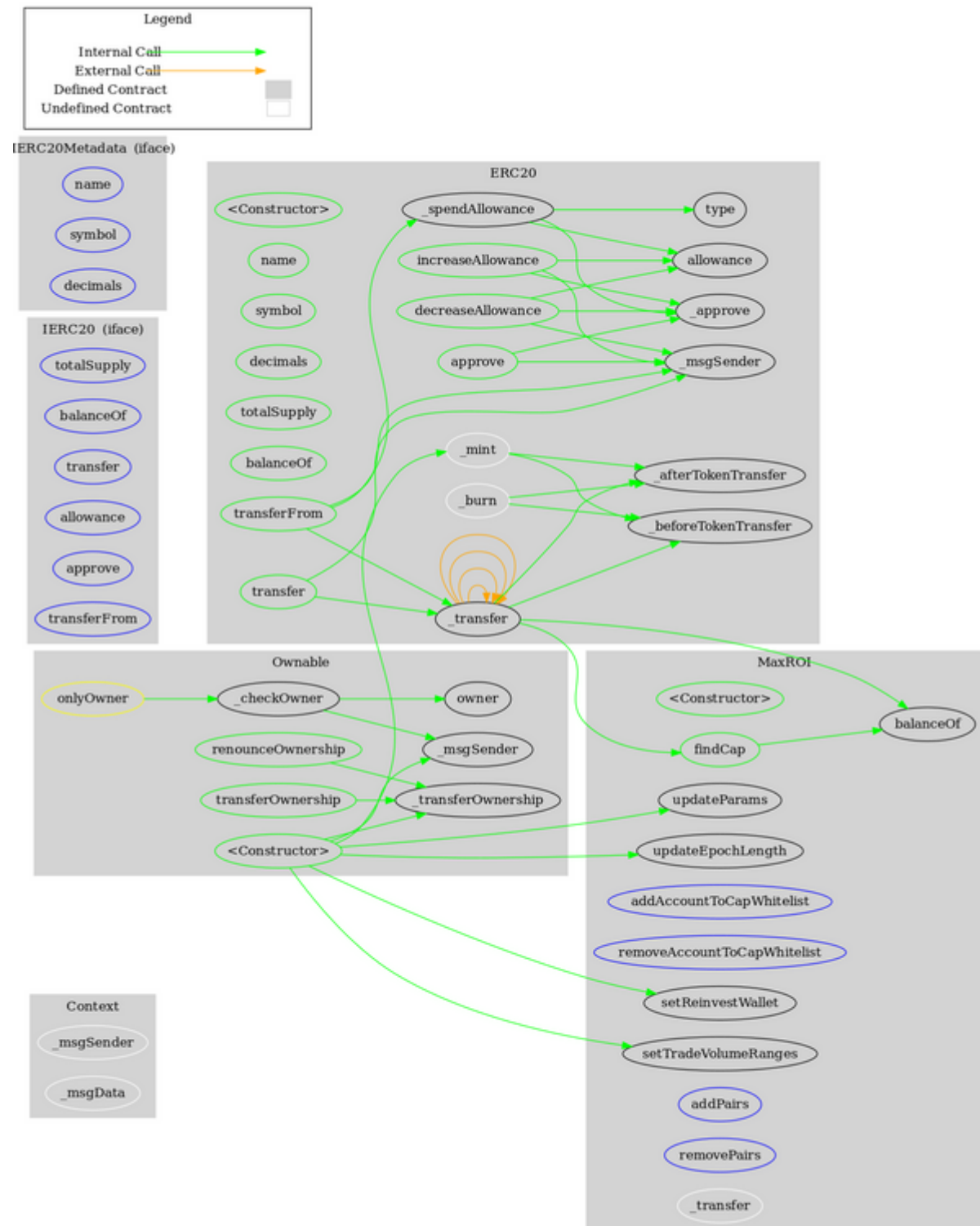
Remove unused functions.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	_checkOwner	Internal		
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
<b>ERC20</b>	Implementation	Context, IERC20, IERC20Metadata		

	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_spendAllowance	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
<b>MaxROI</b>	Implementation	Ownable, ERC20		
	<Constructor>	Public	✓	ERC20
	updateParams	Public	✓	onlyOwner
	updateEpochLength	Private	✓	
	setReinvestWallet	Public	✓	onlyOwner
	addAccountToCapWhitelist	External	✓	onlyOwner
	removeAccountToCapWhitelist	External	✓	onlyOwner
	setTradeVolumeRanges	Private	✓	
	findCap	Public		-
	addPairs	External	✓	onlyOwner
	removePairs	External	✓	onlyOwner
	_transfer	Internal	✓	

# Contract Flow



## Domain Info

<b>Domain Name</b>	safeinvariant.com
<b>Registry Domain ID</b>	2675690812_DOMAIN_COM-VRSN
<b>Creation Date</b>	2022-02-16T21:01:41Z
<b>Updated Date</b>	2022-08-02T19:01:38Z
<b>Registry Expiry Date</b>	2023-02-16T21:01:41Z
<b>Registrar WHOIS Server</b>	whois.launchpad.com
<b>Registrar URL</b>	LaunchPad.com
<b>Registrar</b>	Launchpad, Inc. (HostGator)
<b>Registrar IANA ID</b>	955

The domain was created 8 months before the creation of the audit. It will expire in 4 months.

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

## Summary

The contract has the ability to restrict the selling amount for all users. 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 max buy fee of 8%.

# 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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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 provide all the essential tools to assist users draw their own conclusions.



The Cyberscope team

<https://www.cyberscope.io>