



# Cyberscope

## Audit Report

# MAGA Coin ETH

September 2022

Type ERC20

Network ETH

Address 0xc9b6A17EbB43491635F603A01f8Bb3e4B5D22228

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## Contract Review

<b>Contract Name</b>	MAGACoinETH
<b>Compiler Version</b>	v0.8.7+commit.e28d00a7
<b>Optimization</b>	200 runs
<b>Licence</b>	None
<b>Explorer</b>	<a href="https://etherscan.io/token/0xc9b6A17EbB43491635F603A01f8Bb3e4B5D22228">https://etherscan.io/token/0xc9b6A17EbB43491635F603A01f8Bb3e4B5D22228</a>
<b>Symbol</b>	MAGA
<b>Decimals</b>	9
<b>Total Supply</b>	1,000,000,000
<b>Domain</b>	<a href="https://magacoin.vip">https://magacoin.vip</a>

## Source Files

<b>Filename</b>	<b>SHA256</b>
<b>contract.sol</b>	c60c952d14b469c6ae8a7c036639f503420d9382ca59138c58f39cd494434e3d

## Audit Updates

<b>Initial Audit</b>	17th September 2022
<b>Corrected</b>	

# Contract Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	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

# Contract Diagnostics

● Critical   ● Medium   ● Minor / Informative

Severity	Code	Description	Status
●	L01	Public Function could be Declared External	Unresolved
●	L02	State Variables could be Declared Constant	Unresolved
●	L03	Redundant Statements	Unresolved
●	L04	Conformance to Solidity Naming Conventions	Unresolved
●	L05	Unused State Variable	Unresolved
●	L07	Missing Events Arithmetic	Unresolved
●	L13	Divide before Multiply Operation	Unresolved

## L01 - Public Function could be Declared External

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L71,75,239,243,247,252,261,265,270,284,289,300,305,309,366,370,374,748
<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
allowance
approve
transferFrom
...
```

### Recommendation

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

## L02 - State Variables could be Declared Constant

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L153,161
<b>Status</b>	Unresolved

### Description

Constant state variables should be declared constant to save gas.

```
_tTotal  
deadWallet
```

### Recommendation

Add the constant attribute to state variables that never change.



## L03 - Redundant Statements

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L42
<b>Status</b>	Unresolved

### Description

The contract contains statements that are not used and have no effect. As a result, those segments increase the code size of the contract unnecessarily.

Context

### Recommendation

Remove the redundant statements in order to decrease the code size.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L94,191,324,331,737,748,150,158,166,167
<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.

```
WETH
valuesFromGetValues
EnableTrading
_deadline
_enabled
_tokenAddr
_to
_amount
_decimals
...
```

### Recommendation

Follow the Solidity naming convention.

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

## L05 - Unused State Variable

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L145
<b>Status</b>	Unresolved

### Description

There are segments that contain unused state variables.

```
_lastSell
```

### Recommendation

Remove unused state variables.

## L07 - Missing Events Arithmetic

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L331,732
<b>Status</b>	Unresolved

### 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.

```
deadline = _deadline  
swapTokensAtAmount = amount * 10 ** _decimals
```

### Recommendation

Emit an event for critical parameter changes.

## L13 - Divide before Multiply Operation

<b>Criticality</b>	minor / informative
<b>Location</b>	contract.sol#L636
<b>Status</b>	Unresolved

### Description

Performing divisions before multiplications may cause lose of prediction.

```
unitBalance = deltaBalance / (denominator - temp.liquidity)
```

### Recommendation

The multiplications should be prior to the divisions.

# Contract Functions

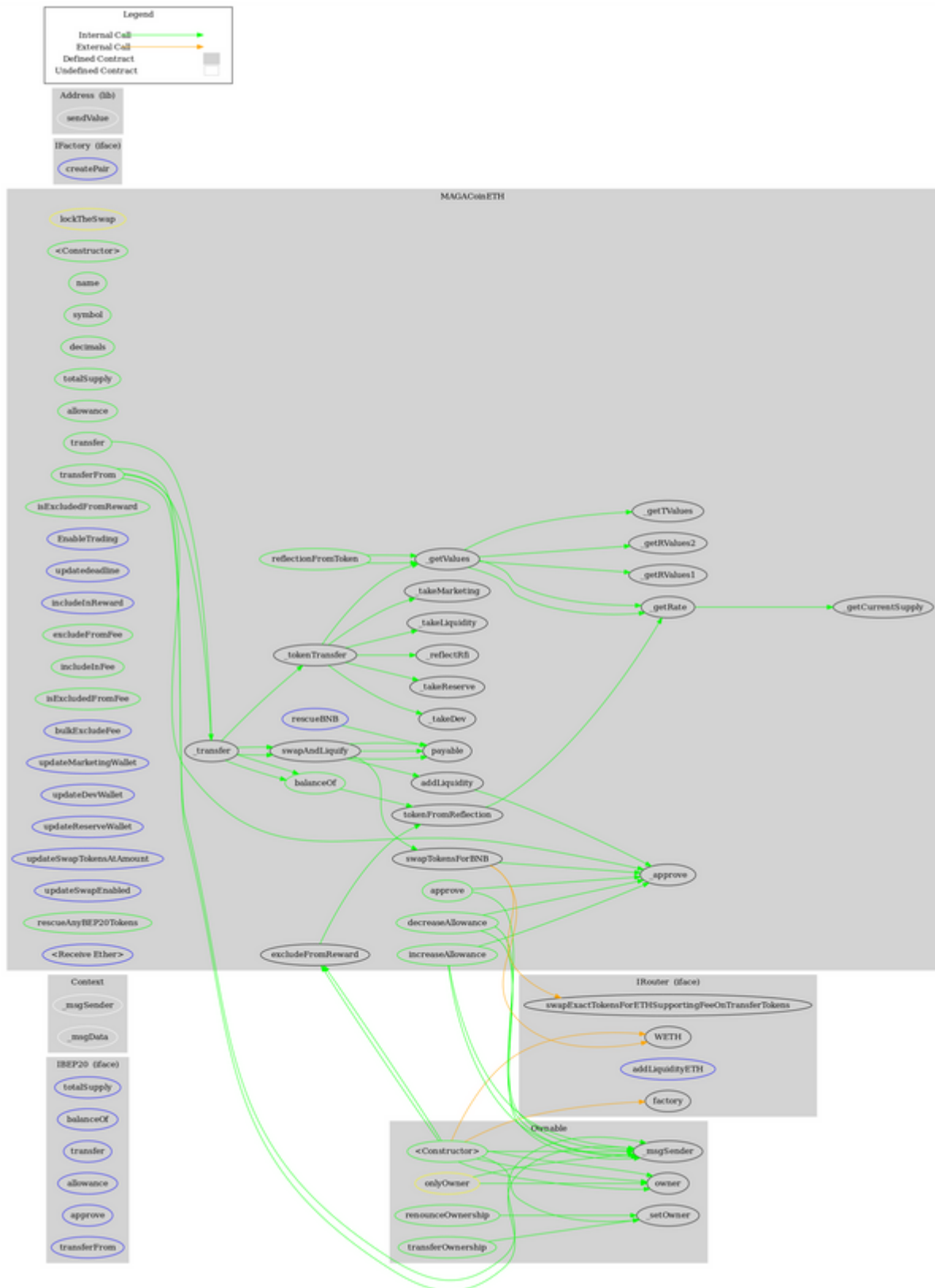
Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>IBEP20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	
<b>IFactory</b>	Interface			
	createPair	External	✓	-
<b>IRouter</b>	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-

Address	Library			
	sendValue	Internal	✓	
<b>MAGACoinETH</b>	Implementation	Context, IBEP20, Ownable		
	<Constructor>	Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	transfer	Public	✓	-
	isExcludedFromReward	Public		-
	reflectionFromToken	Public		-
	EnableTrading	External	✓	onlyOwner
	updateddeadline	External	✓	onlyOwner
	tokenFromReflection	Public		-
	excludeFromReward	Public	✓	onlyOwner
	includeInReward	External	✓	onlyOwner
	excludeFromFee	Public	✓	onlyOwner
	includeInFee	Public	✓	onlyOwner
	isExcludedFromFee	Public		-
	_reflectRfi	Private	✓	
	_takeLiquidity	Private	✓	
	_takeMarketing	Private	✓	
	_takeDev	Private	✓	
	_takeReserve	Private	✓	
	_getValues	Private		
	_getTValues	Private		

	_getRValues1	Private		
	_getRValues2	Private		
	_getRate	Private		
	_getCurrentSupply	Private		
	_approve	Private	✓	
	_transfer	Private	✓	
	_tokenTransfer	Private	✓	
	swapAndLiquify	Private	✓	lockTheSwap
	addLiquidity	Private	✓	
	swapTokensForBNB	Private	✓	
	bulkExcludeFee	External	✓	onlyOwner
	updateMarketingWallet	External	✓	onlyOwner
	updateDevWallet	External	✓	onlyOwner
	updateReserveWallet	External	✓	onlyOwner
	updateSwapTokensAtAmount	External	✓	onlyOwner
	updateSwapEnabled	External	✓	onlyOwner
	rescueBNB	External	✓	onlyOwner
	rescueAnyBEP20Tokens	Public	✓	onlyOwner
	<Receive Ether>	External	Payable	-



# Contract Flow



## Domain Info

<b>Domain Name</b>	magacoin.vip
<b>Registry Domain ID</b>	D_025C8685_FE0541311F9E4125A88563658C09AF82_0000017CA7679AACVIP-GDREG
<b>Creation Date</b>	2021-10-22T09:49:17Z
<b>Updated Date</b>	2021-10-31T21:00:13Z
<b>Registry Expiry Date</b>	2024-10-22T09:49:17Z
<b>Registrar WHOIS Server</b>	whois.namecheap.com
<b>Registrar URL</b>	<a href="http://www.namecheap.com">http://www.namecheap.com</a>
<b>Registrar</b>	NameCheap, Inc.
<b>Registrar IANA ID</b>	1068

The domain was created 11 months before the creation of the audit. It will expire in about 2 years.

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

## Summary

MAGA coin is an interesting project that has a friendly and growing community. 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 limit of max 12% 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.

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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>