

# **Audit Report**

# Froggo

September 2022

Type BEP20

Network BSC

Address 0x1CF7737D4f07CAc180484CBDC3efD891F791209C

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# **Table of Contents**

Table of Contents	1
Contract Review	3
Source Files	3
Audit Updates	3
Contract Analysis	4
BA - Blacklists Addresses	5
Description	5
Recommendation	5
Contract Diagnostics	6
STC - Succeeded Transfer Check	7
Description	7
Recommendation	7
L01 - Public Function could be Declared External	8
Description	8
Recommendation	8
L04 - Conformance to Solidity Naming Conventions	9
Description	9
Recommendation	9
L07 - Missing Events Arithmetic	10
Description	10
Recommendation	10
L12 - Using Variables before Declaration	11
Description	11
Recommendation	11
L14 - Uninitialized Variables in Local Scope	12
Description	12



Recommendation	12
Contract Functions	13
Contract Flow	17
Summary	18
Disclaimer	19
About Cyberscope	20



## **Contract Review**

Contract Name	MutantFroggo
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	5000 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x1CF7737D4f07CAc180484 CBDC3efD891F791209C
Symbol	FROGGO
Decimals	18
Total Supply	4,000,000
Domain	

# Source Files

Filename	SHA256
contract.sol	7716ad2ace8dcf4f6a11fd0ad09f30f638760881c06810f94 070d63fbeb8ae97

# **Audit Updates**

Initial Audit	19th September 2022 https://github.com/cyberscope-io/audits/blob/main/frogg o/v1/audit.pdf
Corrected	20th September 2022

# **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
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed

#### BA - Blacklists Addresses

Criticality	critical
Location	contract.sol#L355
Status	Unresolved

#### Description

The contract owner has the authority to massively stop addresses from transactions. The owner may take advantage of it by calling the setBlacklistEnabledMultiple function.

```
function setBlacklistEnabledMultiple(address[] memory accounts, bool enabled)
external onlyOwner {
    protections.setBlacklistEnabledMultiple(accounts, enabled);
}
```

#### 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**

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	STC	Succeeded Transfer Check	Unresolved
•	L01	Public Function could be Declared External	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L12	Using Variables before Declaration	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved



#### STC - Succeeded Transfer Check

Criticality	minor / informative
Location	contract.sol#L533
Status	Unresolved

#### Description

According to the ERC20 specification, the transfer methods should be checked if the result is successful. Otherwise, the contract may wrongly assume that the transfer has been established.

```
bool success;
uint256 campaignBalance = amtBalance;
(success,) = campaignWallet.call{value: campaignBalance, gas: 35000}("");
```

#### Recommendation

The contract should check if the result of the transfer methods is successful or complete eliminate the success variable since now it is redundant.

### L01 - Public Function could be Declared External

Criticality	minor / informative
Location	contract.sol#L252,341,357,552
Status	Unresolved

#### Description

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

transfer
getCirculatingSupply
isBlacklisted
enableTrading

#### Recommendation

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



# L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contract.sol#L33,365,115,116,117,118,119,127,133,134,135,136,155
Status	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
_antiSnipe
_antiBlock
startingSupply
_name
_symbol
_decimals
_tTotal
_taxRates
...
```

#### Recommendation

Follow the Solidity naming convention.

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



## L07 - Missing Events Arithmetic

Criticality	minor / informative
Location	contract.sol#L389,394,411,420
Status	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.

```
_maxTxAmount = (_tTotal * percent) / divisor
_maxWalletSize = (_tTotal * percent) / divisor
swapThreshold = (_tTotal * thresholdPercent) / thresholdDivisor
piSwapPercent = priceImpactSwapPercent
```

#### Recommendation

Emit an event for critical parameter changes.

## L12 - Using Variables before Declaration

Criticality	minor / informative
Location	contract.sol#L581
Status	Unresolved

#### Description

The contract is using a variable before the declaration. This is usually happening either if it has not been declared yet or the variable has been declared in a different scope.

check

#### Recommendation

The variables should be declared before any usage of them.

# L14 - Uninitialized Variables in Local Scope

Criticality	minor / informative
Location	contract.sol#L580,581
Status	Unresolved

#### Description

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

checked check

#### Recommendation

All the local scoped variables should be initialized.

# **Contract Functions**

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	1	-
IFactoryV2	Interface			
	getPair	External		-
	createPair	External	✓	-
IV2Pair	Interface			
	factory	External		-
	getReserves	External		-
	sync	External	1	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	addLiquidity	External	1	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External		-



	getAmountsIn	External		-
IRouter02	Interface	IRouter01		
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokens	External	<b>✓</b>	-
Protections	Interface			
	checkUser	External	1	-
	setLaunch	External	1	-
	setLpPair	External	1	-
	setProtections	External	1	-
	removeSniper	External	1	-
	isBlacklisted	External		-
	setBlacklistEnabled	External	1	-
	setBlacklistEnabledMultiple	External	<b>√</b>	-
MutantFroggo	Implementation	IERC20		
Widtalitrioggo	<constructor></constructor>	Public	Payable	_
	<receive ether=""></receive>	External	Payable	
	transferOwner	External	√ ayabie	onlyOwner
	renounceOwnership	External	<b>√</b>	onlyOwner
	totalSupply	External	•	-
	decimals	External		_
	symbol	External		_
	name	External		_
	getOwner	External		_
	allowance	External		-
	balanceOf	Public		_
	transfer	Public	1	-
	approve	External	1	-
	_approve	Internal	1	



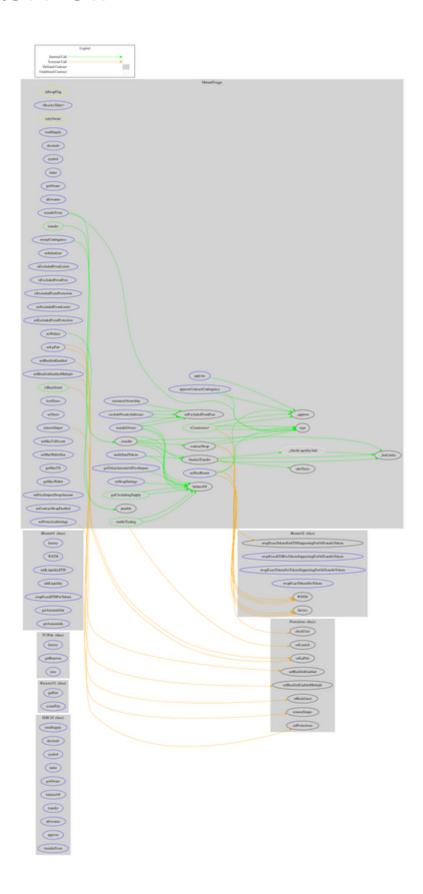
approveContractContingency	External	✓	onlyOwner
transferFrom	External	✓	-
setNewRouter	External	1	onlyOwner
setLpPair	External	1	onlyOwner
setInitializer	External	✓	onlyOwner
isExcludedFromLimits	External		-
isExcludedFromFees	External		-
isExcludedFromProtection	External		-
setExcludedFromLimits	External	1	onlyOwner
setExcludedFromFees	Public	1	onlyOwner
setExcludedFromProtection	External	1	onlyOwner
getCirculatingSupply	Public		-
setBlacklistEnabled	External	<b>√</b>	onlyOwner
setBlacklistEnabledMultiple	External	<b>√</b>	onlyOwner
isBlacklisted	Public		-
removeSniper	External	<b>√</b>	onlyOwner
setProtectionSettings	External	✓	onlyOwner
lockTaxes	External	✓	onlyOwner
setTaxes	External	✓	onlyOwner
setWallets	External	1	onlyOwner
setMaxTxPercent	External	1	onlyOwner
setMaxWalletSize	External	1	onlyOwner
getMaxTX	External		-
getMaxWallet	External		-
getTokenAmountAtPriceImpact	External		-
setSwapSettings	External	✓	onlyOwner
setPriceImpactSwapAmount	External	1	onlyOwner
setContractSwapEnabled	External	1	onlyOwner
excludePresaleAddresses	External	1	onlyOwner
_hasLimits	Internal		
_transfer	Internal	1	
contractSwap	Internal	1	inSwapFlag
_checkLiquidityAdd	Internal	1	
enableTrading	Public	1	onlyOwner



sweepContingency	External	✓	onlyOwner
multiSendTokens	External	✓	onlyOwner
finalizeTransfer	Internal	✓	
takeTaxes	Internal	✓	



# **Contract Flow**





# Summary

Froggo 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 7% fees.



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# 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