

# Audit Report Snapy

October 2022

Type BEP20

Network BSC

Address 0xa24808A57EA01a67A546A50D127aF9AFCdfeBE46

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# **Contract Review**

Contract Name	SNAPY
Compiler Version	v0.8.17+commit.8df45f5f
Optimization	5000 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xa24808A57EA01a67A546A 50D127aF9AFCdfeBE46
Symbol	SPY
Decimals	18
Total Supply	100,000,000
Domain	snapy.photos

# Source Files

Filename	SHA256
contract.sol	a3730d581f29ddd2d52d179998f07bc786790124747f1af 1835eade42a17923b

# **Audit Updates**

Initial Audit	10h October 2022 https://github.com/cyberscope-io/audits/blob/main/spy/a udit.pdf
Corrected	13th October 2022

# **Contract Analysis**

CriticalMediumMinor / InformativePass

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

# **Contract Diagnostics**

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	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
•	L13	Divide before Multiply Operation	Unresolved
•	L14	Uninitialized Variables in Local Scope	Unresolved



## L01 - Public Function could be Declared External

Criticality	minor / informative
Location	contract.sol#L303,392,674
Status	Unresolved

#### Description

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

transfer
getCirculatingSupply
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#L33,400,111,112,113,114,115,132,138,147,148,149,150,162,179
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#L438,443,460,473,478
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
buybackThreshold = threshold * 10 ** thresholdMultiplier
piSwapPercent = priceImpactSwapPercent
```

#### Recommendation

Emit an event for critical parameter changes.



# L12 - Using Variables before Declaration

Criticality	minor / informative
Location	contract.sol#L703
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.



# L13 - Divide before Multiply Operation

Criticality	minor / informative
Location	contract.sol#L582
Status	Unresolved

#### Description

Performing divisions before multiplications may cause lose of prediction.

```
toLiquify = ((contractTokenBalance * ratios.liquidity) / ratios.totalSwap) / 2
```

#### Recommendation

The multiplications should be prior to the divisions.



# L14 - Uninitialized Variables in Local Scope

Criticality	minor / informative
Location	contract.sol#L702,703
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	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	1	-
IFactoryV2	Interface			
	getPair	External		-
	createPair	External	1	-
IV2Pair	Interface			
IVZFall		External		_
	factory getReserves	External		-
	sync	External	✓	-
IRouter01	Interface			
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
	addLiquidity	External	✓	-
	swapExactETHForTokens	External	Payable	-
	getAmountsOut	External		-



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



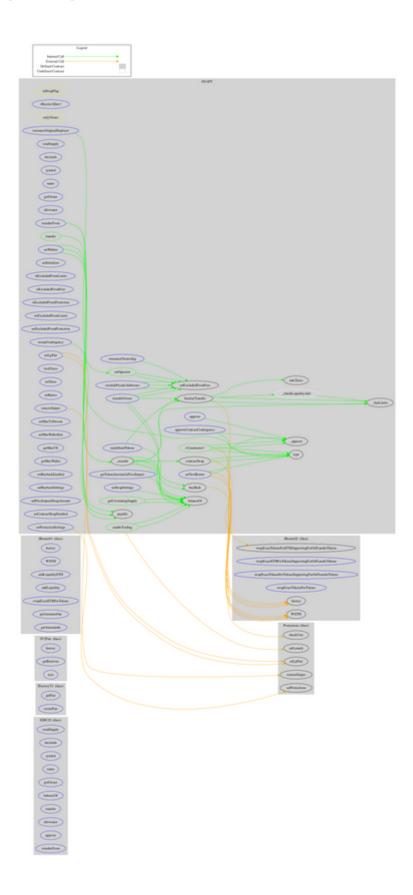
transferFrom	External	✓	-
setNewRouter	External	✓	onlyOwner
setLpPair	External	✓	onlyOwner
setInitializer	External	✓	onlyOwner
isExcludedFromLimits	External		-
isExcludedFromFees	External		-
isExcludedFromProtection	External		-
setExcludedFromLimits	External	✓	onlyOwner
setExcludedFromFees	Public	✓	onlyOwner
setExcludedFromProtection	n External	✓	onlyOwner
getCirculatingSupply	Public		-
removeSniper	External	✓	onlyOwner
setProtectionSettings	External	✓	onlyOwner
lockTaxes	External	✓	onlyOwner
setTaxes	External	✓	onlyOwner
setRatios	External	✓	onlyOwner
setWallets	External	<b>✓</b>	onlyOwner
setMaxTxPercent	External	✓	onlyOwner
setMaxWalletSize	External	✓	onlyOwner
getMaxTX	External		-
getMaxWallet	External		-
getTokenAmountAtPriceImp	pact External		-
setSwapSettings	External	✓	onlyOwner
setBuybackEnabled	External	✓	onlyOwner
setBuybackSettings	External	✓	onlyOwner
setPriceImpactSwapAmour	nt External	<b>√</b>	onlyOwner
setContractSwapEnabled	External	<b>√</b>	onlyOwner
excludePresaleAddresses	External	<b>√</b>	onlyOwner
_hasLimits	Internal		
_transfer	Internal	<b>√</b>	
contractSwap	Internal	<b>√</b>	inSwapFlag
buyBack	Internal	<b>✓</b>	
_checkLiquidityAdd	Internal	✓	
enableTrading	Public	✓	onlyOwner



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



# **Contract Flow**



# Domain Info

Domain Name	snapy.photos
Registry Domain ID	aab77897835846569214457f1df2b208-DONUTS
Creation Date	2022-09-01T18:12:25Z
Updated Date	2022-09-06T18:12:33Z
Registry Expiry Date	2023-09-01T18:12:25Z
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	https://www.namecheap.com/
Registrar	NameCheap, Inc.
Registrar IANA ID	1068

The domain was created about 1 month before the creation of the audit. It will expire in 11 months.

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



# Summary

Snapy Token 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 10% 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.

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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