



# Audit Report

## **DogeStar**

February 2022

Type	BEP20
Network	BSC
Address	0x1F5722fB076659C1d199fCC88051962f4542Db99
Audited by	© coinscope

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# Contract Review

<b>Contract Name</b>	DogeStar
<b>Compiler Version</b>	v0.8.9+commit.e5eed63a
<b>Optimization</b>	200 runs
<b>Licence</b>	
<b>Explorer</b>	<a href="https://bscscan.com/token/0x1F5722fB076659C1d199fCC88051962f4542Db99">https://bscscan.com/token/0x1F5722fB076659C1d199fCC88051962f4542Db99</a>
<b>Symbol</b>	DST
<b>Decimals</b>	9
<b>Total Supply</b>	1,000,000,000
<b>Source</b>	/contracts/DogeStar.sol
<b>Domain</b>	

## Audit Updates

<b>Initial Audit</b>	24th February 2022
<b>Corrected</b>	

# 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
●	L07	Missing Events Arithmetic

## L01 - Public Function could be Declared External

**Criticality**

minor

**Location**

contract.sol#L94,101,122,708

### Description

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

```
getUnpaidEarnings  
transferOwnership  
unauthorize  
authorize
```

### Recommendation

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

## L02 - State Variables could be Declared Constant

**Criticality**

minor

**Location**

contract.sol#L202,215,365,364,366,372,412,413,410,409 and 11 more

### Description

Constant state variables should be declared constant to save gas.

```
tradingOpen
totalFee
reflectionFee
marketingFee
liquidityFee
feeDenominator
devFee
buybackMultiplierNumerator
buybackMultiplierLength
...
```

### Recommendation

Add the constant attribute to state variables that never change.

## L04 - Conformance to Solidity Naming Conventions

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L137,240,329,193,202,672,679,684,696,704 and 17 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.

```
_allowances  
_balances  
_maxTxAmount  
_totalSupply  
_decimals  
_symbol  
_name  
ZERO  
DEAD  
...
```

### Recommendation

Follow the Solidity naming convention.

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



## L07 - Missing Events Arithmetic

<b>Criticality</b>	minor
<b>Location</b>	contract.sol#L240,649,679,684

### 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.

```
targetLiquidity = _target  
swapThreshold = _amount  
_maxTxAmount = amount  
minPeriod = _minPeriod
```

### Recommendation

Emit an event for critical parameter changes.

# Contract Functions

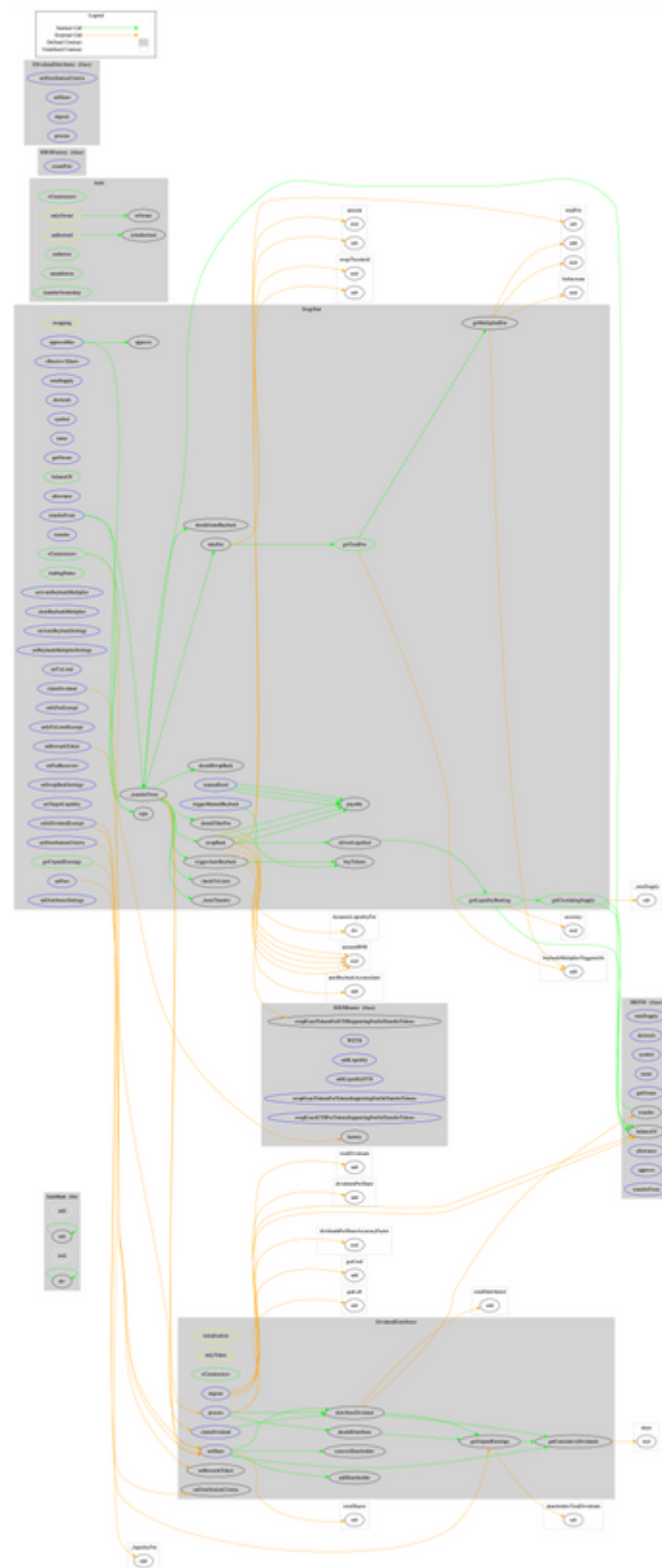
Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>SafeMath</b>	Library			
	add	Internal		
	sub	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		
	div	Internal		
<b>IBEP20</b>	Interface			
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>Auth</b>	Implementation			
	<Constructor>	Public	✓	-
	authorize	Public	✓	onlyOwner
	unauthorize	Public	✓	onlyOwner
	isOwner	Public		-

	isAuthorized	Public		-
	transferOwnership	Public	✓	onlyOwner
<b>IDEXFactory</b>	Interface			
	createPair	External	✓	-
<b>IDEXRouter</b>	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>IDividendDistributor</b>	Interface			
	setDistributionCriteria	External	✓	-
	setShare	External	✓	-
	deposit	External	Payable	-
	process	External	✓	-
<b>DividendDistributor</b>	Implementation	IDividendDistributor		
	<Constructor>	Public	✓	-
	setDistributionCriteria	External	✓	onlyToken
	setShare	External	✓	onlyToken
	deposit	External	Payable	onlyToken
	process	External	✓	onlyToken
	shouldDistribute	Internal		
	distributeDividend	Internal	✓	
	claimDividend	External	✓	onlyToken
	setRewardsToken	External	✓	onlyToken
	getUnpaidEarnings	Public		-

	getCumulativeDividends	Internal		
	addShareholder	Internal	✓	
	removeShareholder	Internal	✓	
<b>DogeStar</b>	Implementation	IBEP20, Auth		
	<Constructor>	Public	✓	Auth
	<Receive Ether>	External	Payable	-
	totalSupply	External		-
	decimals	External		-
	symbol	External		-
	name	External		-
	getOwner	External		-
	balanceOf	Public		-
	allowance	External		-
	approve	Public	✓	-
	approveMax	External	✓	-
	transfer	External	✓	-
	transferFrom	External	✓	-
	_transferFrom	Internal	✓	
	_basicTransfer	Internal	✓	
	checkTxLimit	Internal		
	shouldTakeFee	Internal		
	getTotalFee	Public		-
	getMultipliedFee	Public		-
	takeFee	Internal	✓	
	shouldSwapBack	Internal		
	swapBack	Internal	✓	swapping
	shouldAutoBuyback	Internal		
	triggerManualBuyback	External	✓	authorized
	activateBuybackMultiplier	External	✓	authorized
	clearBuybackMultiplier	External	✓	authorized
	triggerAutoBuyback	Internal	✓	
	buyTokens	Internal	✓	swapping
	setTxLimit	External	✓	authorized
	setIsDividendExempt	External	✓	authorized

	setIsFeeExempt	External	✓	authorized
	setIsTxLimitExempt	External	✓	authorized
	setFeeReceivers	External	✓	authorized
	setSwapBackSettings	External	✓	authorized
	setTargetLiquidity	External	✓	authorized
	manualSend	External	✓	authorized
	setDistributionCriteria	External	✓	authorized
	claimDividend	External	✓	-
	setRewardsToken	External	✓	authorized
	getUnpaidEarnings	Public		-
	setDistributorSettings	External	✓	authorized
	getCirculatingSupply	Public		-
	getLiquidityBacking	Public		-
	isOverLiquified	Public		-

# Contract Flow



# Domain

<b>Domain Name</b>	dogestar.net
<b>Registry Domain ID</b>	
<b>Creation Date</b>	2022-01-29T13:41:28Z
<b>Updated Date</b>	2022-01-29T13:45:25Z
<b>Registry Expiry Date</b>	2023-01-29T13:41:28Z
<b>Registrar WHOIS Server</b>	
<b>Registrar URL</b>	
<b>Registrar</b>	LWS dba Ligne Web Services
<b>Registrar IANA ID</b>	1630

The domain has been created 20 days before the creation of the audit. It will expire in 12 months.

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

# Summary

DogeStar Token is an interesting project with 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.



# Disclaimer

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## About Coinscope

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.

Coinscope is aiming to make crypto discoverable and efficient globally. It provides all the essential tools to assist users draw their own conclusions.



The Coinscope.co team

<https://www.coinscope.co>