

Audit Report Drive To Earn

May 2022

Type BEP20

Network BSC

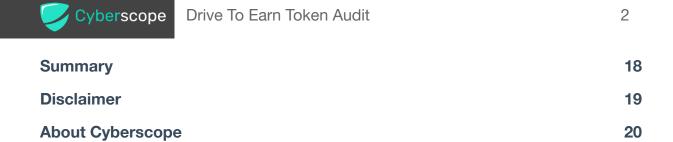
Address 0xbbfd1c566db78b951f9b0af9e313838060416892

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Contract Review

Contract Name	LiquidityGeneratorToken
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0xbbfd1c566db78b951f9b 0af9e313838060416892
Symbol	Drive
Decimals	9
Total Supply	1,000,000,000
Domain	

Source Files

Filename	SHA256
contract.sol	69d66bbe11e8f0687c87de70a01b42f9fe6e6fdcd5e8d4 5002fc7b6dff31e378

Audit Updates

Initial Audit	30th May 2022
Corrected	



Contract Analysis

CriticalMediumMinorPass

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
•	ВТ	Contract Owner is not able to burn tokens from specific wallet
•	ВС	Contract Owner is not able to blacklist wallets from selling



Contract Diagnostics

CriticalMediumMinor

Severity	Code	Description
•	FSA	Fixed Swap Address
•	L01	Public Function could be Declared External
•	L04	Conformance to Solidity Naming Conventions
•	L07	Missing Events Arithmetic
•	L08	Tautology or Contradiction
•	L09	Dead Code Elimination



FSA - Fixed Swap Address

Criticality	minor
Location	contract.sol#L1021

Description

The swap address is assigned once in the constructor and it can not be changed. The decentralized swaps sometimes create a new swap version or abandon the current. A contract that cannot change the swap address may not be able to catch-up the upgrade.

```
IUniswapV2Router02 _uniswapV2Router = IUniswapV2Router02(router_);
    // Create a uniswap pair for this new token
    uniswapV2Pair = IUniswapV2Factory(_uniswapV2Router.factory())
        .createPair(address(this), _uniswapV2Router.WETH());

// set the rest of the contract variables
    uniswapV2Router = _uniswapV2Router;
```

Recommendation

It could be better to allow the swap address mutation in case of future swap updates.



L01 - Public Function could be Declared External

Criticality	minor	
Location	contract.sol#L165,173,1045,1049,1053,1057,1066,1075,1084,1093,1110,1123,1 139,1143,1147,1159,1187,1234,1238,1261,1435	

Description

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

isExcludedFromFee
setSwapAndLiquifyEnabled
includeInFee
excludeFromFee
excludeFromReward
reflectionFromToken
deliver
totalFees
isExcludedFromReward
...

Recommendation

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



L04 - Conformance to Solidity Naming Conventions

Criticality	minor
Location	contract.sol#L641,1261,1396,1400,1408,940,943,946,951

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.

```
_charityAddress
_charityFee
_liquidityFee
_taxFee
_amount
_enabled
WETH
```

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
Location	contract.sol#L1242,1250

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.

```
_liquidityFee = liquidityFeeBps
_taxFee = taxFeeBps
```

Recommendation

Emit an event for critical parameter changes.



L08 - Tautology or Contradiction

Criticality	minor
Location	contract.sol#L972

Description

Detects expressions that are tautologies or contradictions. For instance, an uint variable will always be greater than or equal to zero.

```
require(bool,string)(taxFeeBps_ >= 0,Invalid tax fee)
require(bool,string)(charityFeeBps_ >= 0,Invalid charity fee)
require(bool,string)(liquidityFeeBps_ >= 0,Invalid liquidity fee)
```

Recommendation

Fix the incorrect comparison by changing the value type or the comparison.



L09 - Dead Code Elimination

Criticality	minor
Location	contract.sol#L494,504,523,537,583,593,556,566,441,469,610

Description

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

verifyCallResult sendValue isContract functionStaticCall functionDelegateCall functionCallWithValue functionCall

Recommendation

Remove unused functions.



Contract Functions

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	1	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<constructor></constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	
SafeMath	Library			
Caremau	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		
	tryMod	Internal		
	add	Internal		
	sub	Internal		
	mul	Internal		



div	Internal		
mod	Internal		
sub	Internal		
div	Internal		
mod	Internal		
Library			
isContract	Internal		
sendValue	Internal	1	
functionCall	Internal	✓	
functionCall	Internal	✓	
functionCallWithValue	Internal	1	
functionCallWithValue	Internal	1	
functionStaticCall	Internal		
functionStaticCall	Internal		
functionDelegateCall	Internal	1	
functionDelegateCall	Internal	1	
verifyCallResult	Internal		
-			
Interface			
factory	External		-
WETH	External		-
addLiquidity	External	✓	-
addLiquidityETH	External	Payable	-
removeLiquidity	External	1	-
removeLiquidityETH	External	1	-
removeLiquidityWithPermit	External	1	-
removeLiquidityETHWithPermit	External	1	-
swapExactTokensForTokens	External	1	-
swapTokensForExactTokens	External	1	-
	External	Payable	-
swapExactETHForTokens	External		
swapExactETHForTokens swapTokensForExactETH	External	1	-
swapExactETHForTokens swapTokensForExactETH swapExactTokensForETH			-
	mod sub div mod Library isContract sendValue functionCall functionCallWithValue functionStaticCall functionStaticCall functionDelegateCall functionDelegateCall verifyCallResult Interface factory WETH addLiquidity addLiquidityETH removeLiquidityETH removeLiquidityETHWithPermit swapExactTokensForTokens swapTokensForExactTokens	mod Internal sub Internal div Internal div Internal mod Internal I	mod Internal sub Internal div Internal div Internal Inter



	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Ro uter02	Interface	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-
	removeLiquidityETHWithPermitSupp ortingFeeOnTransferTokens	External	1	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	✓	-
IUniswapV2Fa ctory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	1	-
	setFeeToSetter	External	✓	-
BaseToken	Implementation			
LiquidityGener atorToken	Implementation	IERC20, Ownable, BaseToken		
	<constructor></constructor>	Public	Payable	-
	name	Public		-
	symbol	Public		-



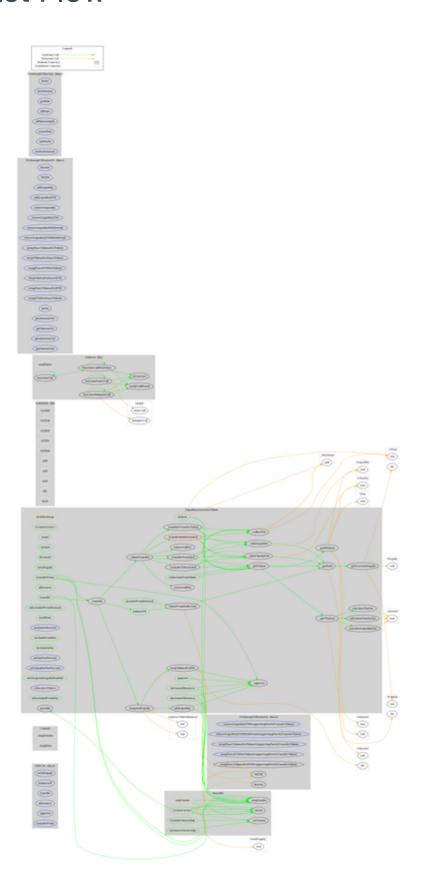
decimals	Public		-
totalSupply	Public		-
balanceOf	Public		-
transfer	Public	✓	-
allowance	Public		-
approve	Public	✓	-
transferFrom	Public	✓	-
increaseAllowance	Public	✓	-
decreaseAllowance	Public	1	-
isExcludedFromReward	Public		-
totalFees	Public		-
deliver	Public	1	-
reflectionFromToken	Public		-
tokenFromReflection	Public		-
excludeFromReward	Public	1	onlyOwner
includeInReward	External	1	onlyOwner
_transferBothExcluded	Private	1	
excludeFromFee	Public	1	onlyOwner
includeInFee	Public	✓	onlyOwner
setTaxFeePercent	External	✓	onlyOwner
setLiquidityFeePercent	External	1	onlyOwner
setSwapAndLiquifyEnabled	Public	1	onlyOwner
<receive ether=""></receive>	External	Payable	-
_reflectFee	Private	1	
_getValues	Private		
_getTValues	Private		
_getRValues	Private		
_getRate	Private		
_getCurrentSupply	Private		
_takeLiquidity	Private	1	
_takeCharityFee	Private	1	
calculateTaxFee	Private		
calculateLiquidityFee	Private		
calculateCharityFee	Private		
removeAllFee	Private	1	



restoreAllFee	Private	✓	
isExcludedFromFee	Public		-
_approve	Private	1	
_transfer	Private	✓	
swapAndLiquify	Private	✓	lockTheSwap
swapTokensForEth	Private	✓	
addLiquidity	Private	✓	
_tokenTransfer	Private	✓	
_transferStandard	Private	✓	
_transferToExcluded	Private	✓	
_transferFromExcluded	Private	✓	



Contract Flow





Summary

Drive To Earn 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 25% fees.



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Coinscope audit and K.Y.C. service has been rebranded to Cyberscope.

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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

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