



Cyberscope

Audit Report

Hamburger

November 2023

Network BSC

Address 0xd705424c59204cbdc3fde54cd858209fc51997b4

Audited by © cyberscope

Analysis

● Critical ● Medium ● Minor / Informative ● Pass

Severity	Code	Description	Status
●	ST	Stops Transactions	Passed
●	OTUT	Transfers User's Tokens	Passed
●	ELFM	Exceeds Fees Limit	Passed
●	MT	Mints Tokens	Passed
●	BT	Burns Tokens	Passed
●	BC	Blacklists Addresses	Passed

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Review

Contract Name	LiquidityGeneratorToken
Compiler Version	v0.8.16+commit.07a7930e
Optimization	9999 runs
Explorer	https://bscscan.com/address/0xd705424c59204cbdc3fde54cd858209fc51997b4
Address	0xd705424c59204cbdc3fde54cd858209fc51997b4
Network	BSC
Symbol	HBG
Decimals	9
Total Supply	1,000,000,000




Audit Updates

Initial Audit	18 Nov 2023
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Source Files

Filename	SHA256
contracts/tokens/liquidityGenerator/LiquidityGenerator.sol	6e6fb542754ec56b79bbc01b4a69af9ec7b8b27ca015f78dcffcd2e48aaa1f74

Findings Breakdown

Severity		Unresolved	Acknowledged	Resolved	Other
	Critical	0	0	0	0
	Medium	0	0	0	0
	Minor / Informative	0	0	0	0

Functions Analysis

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
Context	Implementation			
	_msgSender	Internal		
Ownable	Implementation	Context		
		Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	
SafeMath	Library			

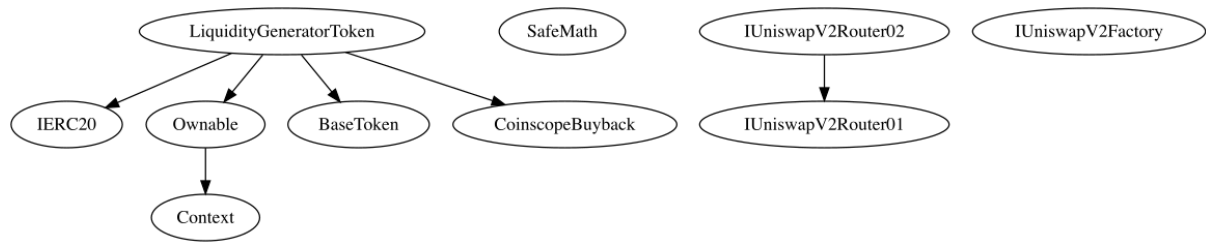
	sub	Internal		
IUniswapV2Router01	Interface			
	factory	External		-
	WETH	External		-
	WETC	External		-
	WHT	External		-
	WROSE	External		-
	WAVAX	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	addLiquidityAVAX	External	Payable	-
	addLiquidityETC	External	Payable	-
	addLiquidityROSE	External	Payable	-
	swapExactETHForTokens	External	Payable	-
IUniswapV2Router02	Interface	IUniswapV2Router01		
	swapExactTokensForETCSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForAVAXSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForROSESupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-

IUniswapV2Factory	Interface			
	createPair	External	✓	-
BaseToken	Implementation			
CoinscopeBuyback	Implementation			
	coinscopeBuyback	Internal	✓	
LiquidityGeneratorToken	Implementation	IERC20, Ownable, BaseToken, CoinscopeBuyback		
		Public	Payable	-
	getNativeCurrency	Internal		
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	Public		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
	increaseAllowance	External	✓	-
	decreaseAllowance	External	✓	-

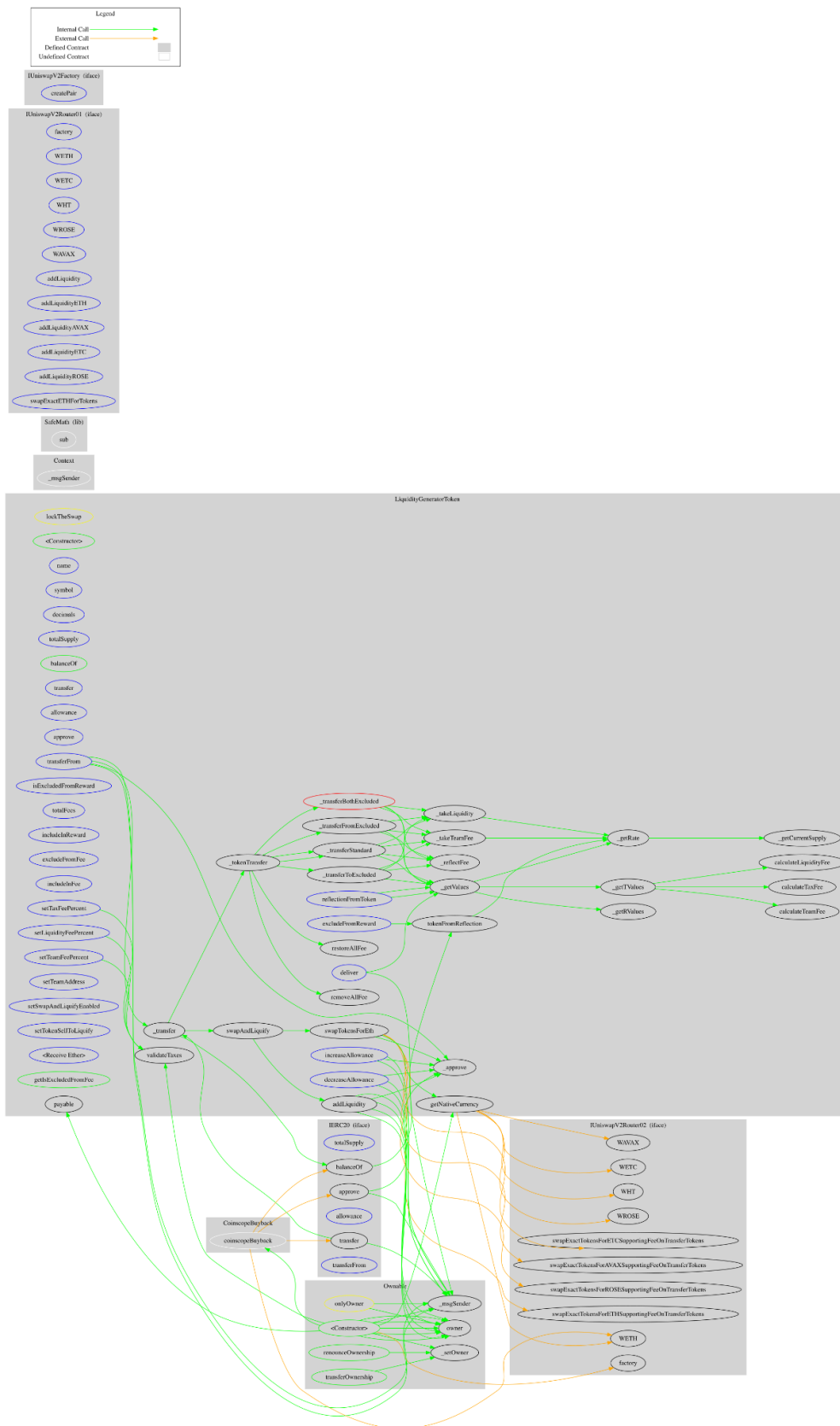
	isExcludedFromReward	External		-
	totalFees	External		-
	deliver	External	✓	-
	reflectionFromToken	External		-
	tokenFromReflection	Public		-
	excludeFromReward	External	✓	onlyOwner
	includeInReward	External	✓	onlyOwner
	_transferBothExcluded	Private	✓	
	excludeFromFee	External	✓	onlyOwner
	includeInFee	External	✓	onlyOwner
	setTaxFeePercent	External	✓	onlyOwner
	setLiquidityFeePercent	External	✓	onlyOwner
	setTeamFeePercent	External	✓	onlyOwner
	setTeamAddress	External	✓	onlyOwner
	validateTaxes	Internal		
	setSwapAndLiquifyEnabled	External	✓	onlyOwner
	setTokenSellToLiquify	External	✓	onlyOwner
		External	Payable	-
	_getValues	Private		
	_getTValues	Private		
	_getRValues	Private		
	_getRate	Private		
	_getCurrentSupply	Private		

	_takeLiquidity	Private	✓	
	_takeTeamFee	Private	✓	
	_reflectFee	Private	✓	
	calculateTaxFee	Private		
	calculateLiquidityFee	Private		
	calculateTeamFee	Private		
	removeAllFee	Private	✓	
	restoreAllFee	Private	✓	
	getIsExcludedFromFee	Public		-
	_approve	Private	✓	
	_transfer	Private	✓	
	swapAndLiquify	Private	✓	lockTheSwap
	swapTokensForEth	Private	✓	
	addLiquidity	Private	✓	
	_tokenTransfer	Private	✓	
	_transferStandard	Private	✓	
	_transferToExcluded	Private	✓	
	_transferFromExcluded	Private	✓	

Inheritance Graph



Flow Graph



Summary

Hamburger contract implements a token mechanism. This audit investigates security issues, business logic concerns and potential improvements. Hamburger 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 20% fees.

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About Cyberscope

Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



The Cyberscope team

<https://www.cyberscope.io>