

Audit Report RollerSwap Token

April 2023

Network BSC

Address 0x86293467aA70a25B9918Ee4fb5Aa4A371e766718

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Review

Contract Name	RollerSwap
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	200 runs
Explorer	https://bscscan.com/ address/0x86293467aA70a25B9918Ee4fb5Aa4A371e766718
Address	0x86293467aA70a25B9918Ee4fb5Aa4A371e766718
Network	BSC
Symbol	ROLS
Decimals	9
Total Supply	50,000,000

Audit Updates

Initial Audit	08 Apr 2023 https://github.com/cyberscope1-io/Audits.git
Corrected Phase 2	08 Apr 2023

Source Files

Filename	MHA256
contracts/tokens/dividentToken/DividentToken.sol	95f0e4b2cf0581bc4fabdc8714d39ad1ceb 28db563921dc986b04d145588f875

Findings Breakdown

	Critical	0
0	Medium	0
	Minor / Informative	0

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



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



Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	1	-
	allowance	External		-
	approve	External	1	-
	transferFrom	External	1	-
IERC20Metadat a	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		



ERC20	Implementation	Context, IERC20, IERC20Meta data		
		Public	✓	-
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
Ownable	Implementation	Context		
		Public	✓	-



	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	
SafeMath	Library			
	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		
Clones	Library			
	clone	Internal	✓	
	cloneDeterministic	Internal	✓	



	predictDeterministicAddress	Internal		
	predictDeterministicAddress	Internal		
IUniswapV2Fac tory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
IUniswapV2Rou ter01	Interface			
	factory	External		-
	WETH	External		-
	WETC	External		-
	WHT	External		-
	WROSE	External		-
	WAVAX	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	External	Payable	-
	addLiquidityAVAX	External	Payable	-



	add invidit CTC	Evela :::: = !	Doughla	
	addLiquidityETC	External	Payable	-
	addLiquidityROSE	External	Payable	-
	removeLiquidity	External	✓	-
	removeLiquidityETH	External	✓	-
	removeLiquidityWithPermit	External	✓	-
	removeLiquidityETHWithPermit	External	✓	-
	swapExactTokensForTokens	External	✓	-
	swapTokensForExactTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapTokensForExactETH	External	✓	-
	swapExactTokensForETH	External	✓	-
	swapETHForExactTokens	External	Payable	-
	quote	External		-
	getAmountOut	External		-
	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Rou ter02	Interface	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeOnTr ansferTokens	External	1	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupporting FeeOnTransferTokens	External	1	-



	swapExactETHForTokensSupportingFee OnTransferTokens	External	Payable	-
	swapExactTokensForETCSupportingFee OnTransferTokens	External	Payable	-
	swapExactTokensForAVAXSupportingFe eOnTransferTokens	External	Payable	-
	swapExactTokensForROSESupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFee OnTransferTokens	External	✓	-
IERC20Upgrad eable	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadat aUpgradeable	Interface	IERC20Upgr adeable		
	name	External		-
	symbol	External		-
	decimals	External		-
Initializable	Implementation			



ContextUpgrad eable	Implementation	Initializable		
	Context_init	Internal	✓	initializer
	Context_init_unchained	Internal	✓	initializer
	_msgSender	Internal		
	_msgData	Internal		
ERC20Upgrade able	Implementation	Initializable, ContextUpgr adeable, IERC20Upgr adeable, IERC20Meta dataUpgrade able		
	ERC20_init	Internal	✓	initializer
	ERC20_init_unchained	Internal	✓	initializer
	name	Public		-
	symbol	Public		-
	decimals	Public		-
	totalSupply	Public		-
	balanceOf	Public		-
	transfer	Public	✓	-
	allowance	Public		-
	approve	Public	✓	-
	transferFrom	Public	✓	-
	increaseAllowance	Public	✓	-
	decreaseAllowance	Public	✓	-
	_transfer	Internal	✓	



	_mint	Internal	√	
	_burn	Internal	✓	
	_approve	Internal	✓	
	_beforeTokenTransfer	Internal	✓	
	_afterTokenTransfer	Internal	✓	
OwnableUpgra deable	Implementation	Initializable, ContextUpgr adeable		
	Ownable_init	Internal	✓	initializer
	Ownable_init_unchained	Internal	✓	initializer
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_setOwner	Private	✓	
IUniswapV2Pair	Interface			
	name	External		-
	symbol	External		-
	decimals	External		-
	totalSupply	External		-
	balanceOf	External		-
	allowance	External		-
	approve	External	✓	-
	transfer	External	✓	-



	transferFrom	External	✓	-
	DOMAIN_SEPARATOR	External		-
	PERMIT_TYPEHASH	External		-
	nonces	External		-
	permit	External	✓	-
	MINIMUM_LIQUIDITY	External		-
	factory	External		-
	token0	External		-
	token1	External		-
	getReserves	External		-
	price0CumulativeLast	External		-
	price1CumulativeLast	External		-
	kLast	External		-
	mint	External	✓	-
	burn	External	✓	-
	swap	External	✓	-
	skim	External	✓	-
	sync	External	✓	-
	initialize	External	✓	-
SafeMathInt	Library			
	mul	Internal		
	div	Internal		



	sub	Internal		
	add	Internal		
	abs	Internal		
	toUint256Safe	Internal		
SafeMathUint	Library			
	toInt256Safe	Internal		
IterableMappin g	Library			
	get	Public		-
	getIndexOfKey	Public		-
	getKeyAtIndex	Public		-
	size	Public		-
	set	Public	✓	-
	remove	Public	✓	-
DividendPaying TokenInterface	Interface			
	dividendOf	External		-
	withdrawDividend	External	✓	-
DividendPaying TokenOptionalI nterface	Interface			
	withdrawableDividendOf	External		-



	withdrawnDividendOf	External		-
	accumulativeDividendOf	External		-
DividendPaying Token	Implementation	ERC20Upgra deable, OwnableUpg radeable, DividendPayi ngTokenInter face, DividendPayi ngTokenOpti onalInterface		
	DividendPayingToken_init	Internal	✓	initializer
	distributeCAKEDividends	Public	✓	onlyOwner
	withdrawDividend	Public	✓	-
	_withdrawDividendOfUser	Internal	✓	
	dividendOf	Public		-
	withdrawableDividendOf	Public		-
	withdrawnDividendOf	Public		-
	accumulativeDividendOf	Public		-
	_transfer	Internal	✓	
	_mint	Internal	✓	
	_burn	Internal	✓	
	_setBalance	Internal	✓	
DividendTracke r	Implementation	OwnableUpg radeable, DividendPayi ngToken		
	initialize	External	✓	initializer



	_transfer	Internal		
	withdrawDividend	Public		-
	excludeFromDividends	External	1	onlyOwner
	isExcludedFromDividends	Public		-
	updateClaimWait	External	1	onlyOwner
	updateMinimumTokenBalanceForDivide nds	External	✓	onlyOwner
	getLastProcessedIndex	External		-
	getNumberOfTokenHolders	External		-
	getAccount	Public		-
	getAccountAtIndex	Public		-
	canAutoClaim	Private		
	setBalance	External	1	onlyOwner
	process	Public	1	-
	processAccount	Public	1	onlyOwner
BaseToken	Implementation			
DividentToken	Implementation	ERC20, Ownable, BaseToken		
		Public	Payable	ERC20
		External	Payable	-
	setSwapTokensAtAmount	External	1	onlyOwner
	excludeFromFees	External	1	onlyOwner
	excludeMultipleAccountsFromFees	External	1	onlyOwner



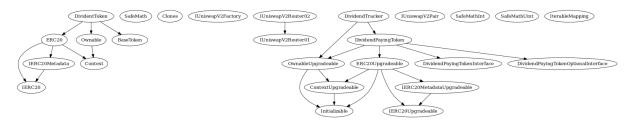
setMarketingWallet	External	✓	onlyOwner
setTokenRewardsFee	External	✓	onlyOwner
setLiquiditFee	External	✓	onlyOwner
setMarketingFee	External	✓	onlyOwner
_setAutomatedMarketMakerPair	Private	✓	
updateGasForProcessing	Public	✓	onlyOwner
updateClaimWait	External	✓	onlyOwner
getClaimWait	External		-
updateMinimumTokenBalanceForDivide nds	External	1	onlyOwner
getMinimumTokenBalanceForDividends	External		-
getTotalDividendsDistributed	External		-
isExcludedFromFees	Public		-
withdrawableDividendOf	Public		-
dividendTokenBalanceOf	Public		-
excludeFromDividends	External	✓	onlyOwner
isExcludedFromDividends	Public		-
getAccountDividendsInfo	External		-
getAccountDividendsInfoAtIndex	External		-
processDividendTracker	External	1	-
claim	External	1	-
getLastProcessedIndex	External		-
getNumberOfDividendTokenHolders	External		-
_transfer	Internal	1	



swapAndSendToFee	Private	1
swapAndLiquify	Private	1
swapTokensForEth	Private	1
swapTokensForCake	Private	1
addLiquidity	Private	1
swapAndSendDividends	Private	1

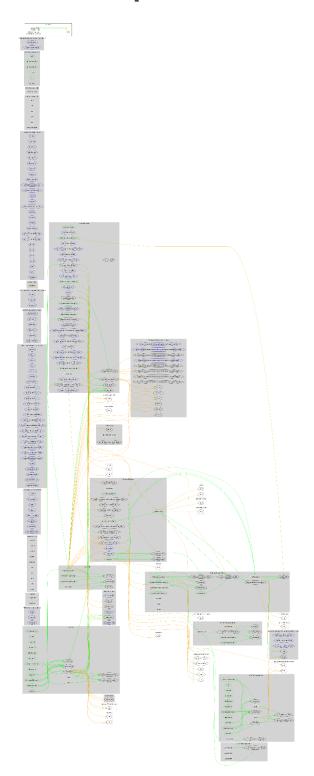


Inheritance Graph





Flow Graph





Summary

RollerSwap Token contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. RollerSwap 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 2% fee.

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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.

