

Audit Report CuteMoonia

November 2023

Network BSC

Address 0x164f1937b86B37FF1Cb805E8911494Dd3938793e

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Analysis

CriticalMediumMinor / InformativePass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	MT	Mints Tokens	Passed
•	ВТ	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed



Table of Contents

Analysis	1
Table of Contents	2
Review	3
Audit Updates	3
Source Files	3
Findings Breakdown	4
Functions Analysis	5
Inheritance Graph	17
Flow Graph	18
Summary	19
Disclaimer	20
About Cyberscope	21



Review

Contract Name	DividendToken
Compiler Version	v0.8.16+commit.07a7930e
Optimization	200 runs
Explorer	https://bscscan.com/address/0x164f1937b86b37ff1cb805e8911 494dd3938793e
Address	0x164f1937b86b37ff1cb805e8911494dd3938793e
Network	BSC
Symbol	CuteMoon
Decimals	18
Total Supply	365,000,000,000,000

Audit Updates

Initial Audit	14 Nov 2023
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Source Files

Filename	SHA256
contracts/tokens/dividendToken/dividendToken/DividendToken.sol	a6562d7c561fbd01600e0d1315f1f651368 e1c1bc65377a0954b72c5804d306d

Findings Breakdown

Sev	rerity	Unresolved	Acknowledged	Resolved	Other
•	Critical	0	0	0	0
•	Medium	0	0	0	0
	Minor / Informative	0	0	0	0



Functions Analysis

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
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		
SafeMathInt	Library			
	mul	Internal		
	div	Internal		



	sub	Internal		
	add	Internal		
	abs	Internal		
	toUint256Safe	Internal		
SafeMathUint	Library			
	toInt256Safe	Internal		
Initializable	Implementation			
ContextUpgrad eable	Implementation	Initializable		
	Context_init	Internal	✓	initializer
	Context_init_unchained	Internal	✓	initializer
	_msgSender	Internal		
	_msgData	Internal		
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		-
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	✓	
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	✓	
IterableMappin g	Library			
	get	Public		-
	getIndexOfKey	Public		-
	getKeyAtIndex	Public		-
	size	Public		-



	set	Public	✓	-
	remove	Public	✓	-
DividendTracke r	Implementation	OwnableUpg radeable, DividendPayi ngToken		
	initialize	External	✓	initializer
	_transfer	Internal		
	withdrawDividend	Public		-
	excludeFromDividends	External	✓	onlyOwner
	isExcludedFromDividends	Public		-
	updateClaimWait	External	✓	onlyOwner
	updateMinimumTokenBalanceForDivide nds	External	1	onlyOwner
	getLastProcessedIndex	External		-
	getNumberOfTokenHolders	External		-
	getAccount	Public		-
	getAccountAtIndex	Public		-
	canAutoClaim	Private		
	setBalance	External	✓	onlyOwner
	process	Public	✓	-
	processAccount	Public	✓	onlyOwner
IERC20	Interface			
	totalSupply	External		-



	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
IERC20Metadat	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	1	-
	allowance	Public		-
	approve	Public	1	-
	transferFrom	Public	1	-
	increaseAllowance	Public	1	-
	decreaseAllowance	Public	1	-
	_transfer	Internal	1	
	_mint	Internal	1	
	_burn	Internal	1	
	_approve	Internal	✓	
Ownable	Implementation	Context		
		Public	✓	-
	owner	Public		-
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
	_setOwner	Private	1	
Clones	Library			
	clone	Internal	✓	
IUniswapV2Fac tory	Interface			
	createPair	External	✓	-



	getPair	External		-
IUniswapV2Rou ter01	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	-
	removeLiquidity	External	1	-
	removeLiquidityETH	External	1	-
	removeLiquidityETHWithPermit	External	1	-
	swapExactTokensForTokens	External	✓	-
	swapExactETHForTokens	External	Payable	-
	swapExactTokensForETH	External	✓	-
IUniswapV2Rou ter02	Interface	IUniswapV2 Router01		
	swapExactTokensForTokensSupporting FeeOnTransferTokens	External	✓	-



	swapExactTokensForETCSupportingFee OnTransferTokens	External	Payable	-
	swapExactTokensForAVAXSupportingFe eOnTransferTokens	External	Payable	-
	swapExactTokensForROSESupportingF eeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFee OnTransferTokens	External	✓	-
BaseToken	Implementation			
CoinscopeBuyb ack	Implementation			
	coinscopeBuyback	Internal	✓	
DividendToken	Implementation	ERC20, Ownable, BaseToken, CoinscopeB uyback		
		Public	Payable	ERC20
	getNativeCurrency	Internal		
		External	Payable	-
	setSwapTokensAtAmount	External	✓	onlyOwner
	excludeFromFees	External	1	onlyOwner
	includeInFees	External	✓	onlyOwner
	excludeMultipleAccountsFromFees	External	✓	onlyOwner
	setMarketingWallet	External	✓	onlyOwner
	setTokenRewardsFee	External	✓	onlyOwner
	setLiquidityFee	External	✓	onlyOwner



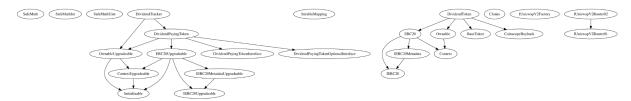
setMarketingFee	External	✓	onlyOwner
updateFees	Internal	✓	
_setAutomatedMarketMakerPair	Private	✓	
updateGasForProcessing	Public	✓	onlyOwner
updateClaimWait	External	✓	onlyOwner
getClaimWait	External		-
updateMinimumTokenBalanceForDivide nds	External	✓	onlyOwner
getMinimumTokenBalanceForDividends	External		-
getTotalDividendsDistributed	External		-
isExcludedFromFees	Public		-
withdrawableDividendOf	Public		-
dividendTokenBalanceOf	Public		-
excludeFromDividends	External	✓	onlyOwner
isExcludedFromDividends	Public		-
getAccountDividendsInfo	External		-
getAccountDividendsInfoAtIndex	External		-
processDividendTracker	External	✓	-
claim	External	✓	-
getLastProcessedIndex	External		-
getNumberOfDividendTokenHolders	External		-
_transfer	Internal	✓	
swap	Private	✓	lockTheSwap
swapAndLiquify	Private	✓	



swapTokensForEth	Private	✓
addLiquidity	Private	✓
swapTokensForReward	Private	1
swapAndSendDividends	Private	1

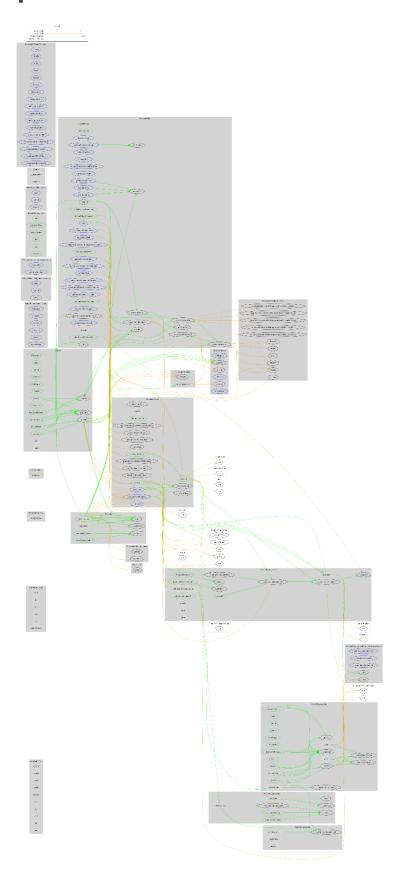


Inheritance Graph





Flow Graph





Summary

CuteMoonia contract implements a token mechanism. This audit investigates security issues, business logic concerns, and potential improvements. CuteMoonia is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler errors 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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Blockchain technology and cryptographic assets present a high level of ongoing risk Cyberscope's position is that each company and individual are responsible for their own due diligence and continuous security Cyberscope's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies and in no way claims any guarantee of security or functionality of the technology we agree to analyze. The assessment services provided by Cyberscope are subject to dependencies and are under continuing development. You agree that your access and/or use including but not limited to any services reports and materials will be at your sole risk on an as-is where-is and as-available basis Cryptographic tokens are emergent technologies and carry with them high levels of technical risk and uncertainty. The assessment reports could include false positives false negatives and other unpredictable results. The services may access and depend upon multiple layers of third parties.

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