



# Audit Report

## **Equity**

### Reflection Tracker Token

February 2022

Type	ERC20
Network	MATIC MUMBAI
Address	0xC24Eda6C22b3b4232607F931d3DfC19bd24f3E8E
Audited by	© coinscope

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# Contract Review

<b>Contract Name</b>	EquityRTT
<b>Compiler Version</b>	v0.8.10+commit.fc410830
<b>Optimization</b>	500 runs
<b>Licence</b>	
<b>Explorer</b>	<a href="https://mumbai.polygonscan.com/token/0xC24Eda6C22b3b4232607F931d3DfC19bd24f3E8E">https://mumbai.polygonscan.com/token/0xC24Eda6C22b3b4232607F931d3DfC19bd24f3E8E</a>
<b>Symbol</b>	Equity_RTT
<b>Decimals</b>	18
<b>Total Supply</b>	1,020,000
<b>Source</b>	EquityRTT.sol ReflectionTrackerToken.sol SafeMathUint.sol SafeMathInt.sol IterableMapping.sol IReflective.sol IReflectionTracker.sol SharedOwnable.sol IWETH.sol IUniswapV2Router02.sol IUniswapV2Router01.sol IUniswapV2Factory.sol Context.sol IERC20Metadata.sol IERC20.sol ERC20.sol Ownable.sol

## Audit Updates

<b>Initial Audit</b>	17th February 2022
<b>Corrected</b>	

## Contract Analysis

Equity reflection dividend tracker is a mechanism that shares rewards to the holders. The holders automatically receive rewards either in Matic or tokens. The rewarded percentage is calculated according to a variation called “magnitude”. The holders are applicable for rewards only if they hold a minimum amount of tokens. The reflective role has the authority to set the balance of any account.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>Context</b>	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
<b>EquityRTT</b>	Implementation	ReflectionTrackerToken		
	<Constructor>	Public	✓	ReflectionTrackerToken
<b>ERC20</b>	Implementation	Context, IERC20, IERC20Metadata		
	<Constructor>	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	✓	
<b>IERC20</b>	Interface			
	totalSupply	External		-
	balanceOf	External		-
	transfer	External	✓	-
	allowance	External		-
	approve	External	✓	-
	transferFrom	External	✓	-
<b>IERC20Metadata</b>	Interface	IERC20		
	name	External		-
	symbol	External		-
	decimals	External		-
<b>IReflectionTracker</b>	Interface			
	isBoundTo	External		-
	bindTo	External	✓	-
	getBalanceOf	External		-
	setBalanceOf	External	✓	-
	refreshBalanceOf	External	✓	-
	refreshBalance	External	✓	-
	getUniswapV2Router02Address	External		-
	setUniswapV2Router02Address	External	✓	-
	getDefaultReflectionTokenAddress	External		-
	setDefaultReflectionTokenAddress	External	✓	-
	getClaimCooldown	External		-
	setClaimCooldown	External	✓	-
	getMinimumTokenBalanceForReflections	External		-
	setMinimumTokenBalanceForReflections	External	✓	-
	getExcludedReflectionStateOfBNB	External		-
	setExcludedReflectionStateOfBNB	External	✓	-
	getExcludedReflectionTokenStateOf	External		-

	setExcludedReflectionTokenStateOf	External	✓	-
	getExcludedFromReflectionsOf	External		-
	setExcludedFromReflectionsOf	External	✓	-
	getProcessingGas	External		-
	setProcessingGas	External	✓	-
	getReflectionInBNB	External		-
	setReflectionInBNB	External	✓	-
	getReflectionTokenAddress	External		-
	setReflectionTokenAddress	External	✓	-
	getNumberOfHolders	External		-
	getLastProcessedIndex	External		-
	getTotalReflectionsTransferred	External		-
	getWithdrawnReflectionsOf	External		-
	getWithdrawableReflectionsOf	External		-
	getAccountInfoOf	External		-
	getAccountInfoAtIndex	External		-
	transferReflections	External	Payable	-
	transferReflections	External	✓	-
	process	External	✓	-
	processAll	External	✓	-
	processAll	External	✓	-
	processAll	External	✓	-
<b>IReflective</b>	Interface			
	getBalanceOf	External		-
	getTokenPairOtherTokenAddress	External		-
<b>IterableMapping</b>	Library			
	size	Internal		
	get	Internal		
	getKeyAtIndex	Internal		
	getIndexOfKey	Internal		
	set	Internal	✓	
	remove	Internal	✓	



<b>IUniswapV2Factory</b>	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	✓	-
	setFeeTo	External	✓	-
	setFeeToSetter	External	✓	-
<b>IUniswapV2Router01</b>	Interface			
	factory	External		-
	WETH	External		-
	addLiquidity	External	✓	-
	addLiquidityETH	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		-
<b>IUniswapV2Router02</b>	Interface	IUniswapV2Router01		
	removeLiquidityETHSupportingFeeOnTransferTokens	External	✓	-

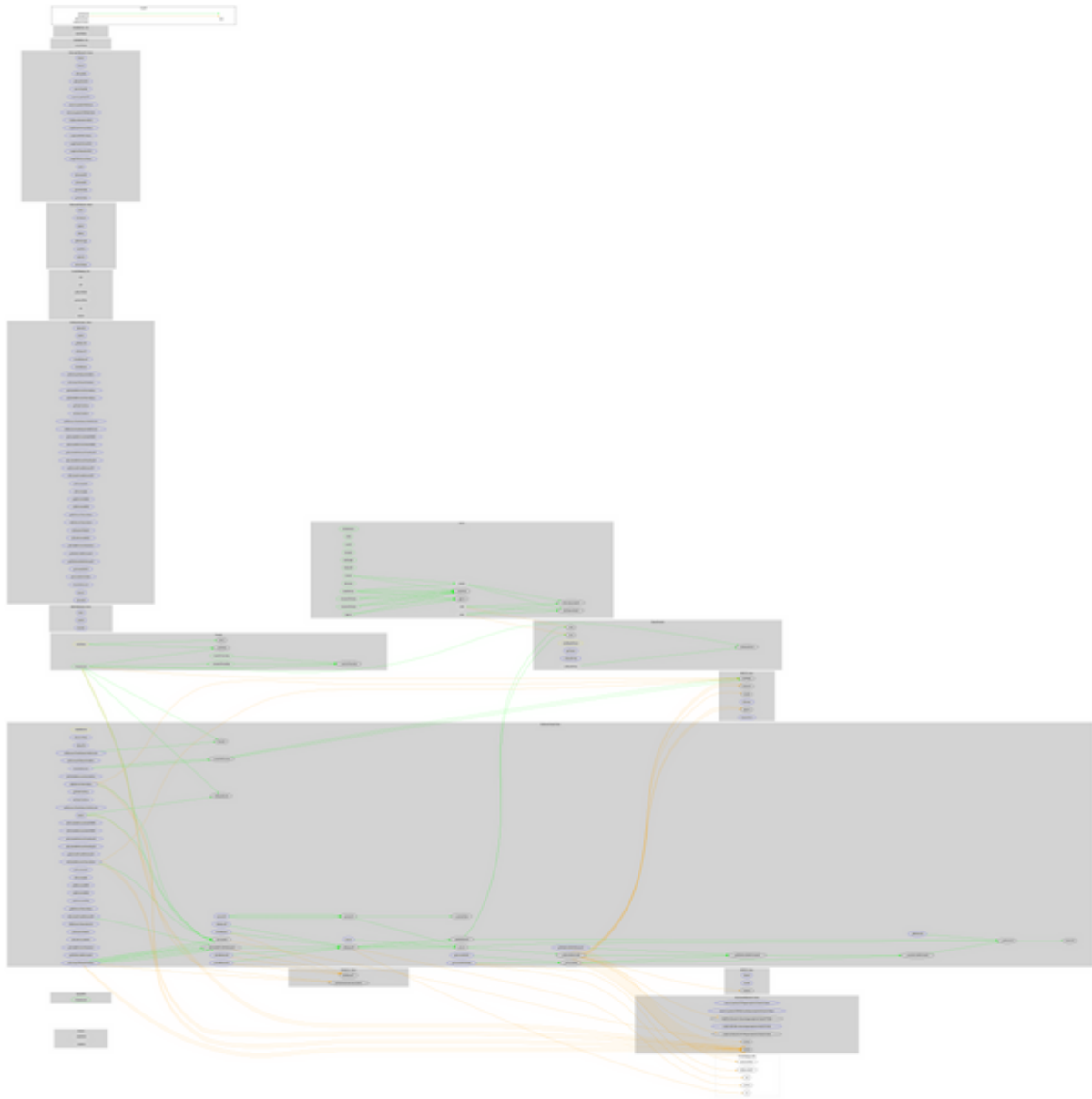
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	✓	-
	swapExactTokensForTokensSupportingFeeOnTransferTokens	External	✓	-
	swapExactETHForTokensSupportingFeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
<b>IWETH</b>	Interface			
	deposit	External	Payable	-
	transfer	External	✓	-
	withdraw	External	✓	-
<b>Ownable</b>	Implementation	Context		
	<Constructor>	Public	✓	-
	owner	Public		-
	renounceOwnership	Public	✓	onlyOwner
	transferOwnership	Public	✓	onlyOwner
	_transferOwnership	Internal	✓	
<b>ReflectionTrackerToken</b>	Implementation	ERC20, IReflectionTracker, SharedOwnable		
	<Constructor>	Public	✓	ERC20
	<Receive Ether>	External	Payable	-
	isBoundTo	External		-
	bindTo	External	✓	onlySharedOwners
	getBalanceOf	External		-
	setBalanceOf	External	✓	onlyReflective
	refreshBalanceOf	External	✓	-
	refreshBalancesOf	External	✓	onlySharedOwners
	refreshBalance	External	✓	-
	getUniswapV2Router02Address	External		-

	setUniswapV2Router02Address	External	✓	onlySharedOwners
	getDefaultReflectionTokenAddress	External		-
	setDefaultReflectionTokenAddress	External	✓	onlySharedOwners
	getClaimCooldown	External		-
	setClaimCooldown	External	✓	onlySharedOwners
	getMinimumTokenBalanceForReflections	External		-
	setMinimumTokenBalanceForReflections	External	✓	onlySharedOwners
	getExcludedReflectionStateOfBNB	External		-
	setExcludedReflectionStateOfBNB	External	✓	onlySharedOwners
	getExcludedReflectionTokenStateOf	External		-
	setExcludedReflectionTokenStateOf	External	✓	onlySharedOwners
	getExcludedFromReflectionsOf	External		-
	setExcludedFromReflectionsOf	External	✓	onlySharedOwners
	getProcessingGas	External		-
	setProcessingGas	External	✓	onlySharedOwners
	getReflectionInBNB	External		-
	setReflectionInBNB	External	✓	-
	setReflectionInBNBs	External	✓	onlySharedOwners
	getReflectionTokenAddress	External		-
	setReflectionTokenAddress	External	✓	-
	setReflectionTokenAddresses	External	✓	onlySharedOwners
	getNumberOfHolders	External		-
	getLastProcessedIndex	External		-
	getTotalReflectionsTransferred	External		-
	getWithdrawnReflectionsOf	External		-
	getWithdrawableReflectionsOf	External		-
	getAccountInfoOf	External		-
	getAccountInfoAtIndex	External		-

	_getAccountInfo	Private		
	transferReflections	External	Payable	onlyReflective
	transferReflections	External	✓	onlyReflective
	process	External	✓	-
	processAll	External	✓	onlySharedOwners
	processAll	External	✓	onlySharedOwners
	processAll	External	✓	onlySharedOwners
	_transfer	Internal		
	_mint	Internal	✓	
	_burn	Internal	✓	
	_getTokenPair	Private		
	_getBalanceOf	Private		
	_setBalanceOf	Private	✓	
	_updateBalanceOf	Private	✓	
	_setExcludedFromReflectionsOf	Private	✓	
	_getWithdrawableReflectionsOf	Private		
	_accumulativeReflectionOf	Private		
	_transferReflections	Private	✓	
	_canAutoClaim	Private		
	_process	Private	✓	
	_processAll	Private	✓	
	_withdrawReflectionOf	Private	✓	
<b>SafeMathInt</b>	Library			
	toUint256Safe	Internal		
<b>SafeMathUint</b>	Library			
	toInt256Safe	Internal		
<b>SharedOwnable</b>	Implementation	Ownable		
	<Constructor>	Public	✓	Ownable
	getCreator	External		-
	isSharedOwner	External		-

	setSharedOwner	Internal	✓	onlySharedOwners
	_setSharedOwner	Private	✓	

# Contract Flow



## Summary

Equity Reflection Tracker implements the fundamental mechanism for sharing reflections. The smart contract analysis reported no compiler errors or critical issues. Since the contract is operating as a utility contract rather than a token, it cannot harm the user's transactions. It merely operates as a distributor. There are some roles that can mutate the reflection balance of the contract. We state that the owner privileges are necessary and required for proper protocol operations. Thus, we emphasise the contract owner to be extra careful with the credentials.

# Disclaimer

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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

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