



## Audit Report

# Fractional Rocket Dividend Distributor

February 2022

Source      Github

commit      f724959d1b9a6081216ce40991215d0de7198481

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## Contract Review

<b>Github</b>	<a href="https://github.com/Fr0ck/audit">https://github.com/Fr0ck/audit</a>
<b>Commit</b>	f724959d1b9a6081216ce40991215d0de7198481
<b>File</b>	DividenDistributor/DividenDistributorV1.sol

## Audit Updates

<b>Initial Audit</b>	16h of February 2022
<b>Corrected phase 1</b>	18h of February 2022
<b>Corrected phase 2</b>	21h of February 2022

# Contract Analysis

The dividend distributor is a mechanism that shares rewards to the token holders. The users that hold the “mainToken” are rewarded proportional to their holdings quantity. The reward price is paid in the main network’s coin. The reward process is taking place in rounds.

The contract owner is responsible to set the rewards rounds and the amount that is going to be shared. There is no limit in regards to the rewards amount. Users can claim their rewards manually. They can claim their rewards even if the rewards round has elapsed.

## Corrected phase 2

All the findings have been addressed on the current commit. You can find the previous iterations in the v1 and v2 folders on the Github folder.

# Contract Functions

Contract	Type	Bases		
	Function Name	Visibility	Mutability	Modifiers
<b>DividenDistributorProxy</b>	Implementation	ERC1967Proxy		
	<Constructor>	Public	Payable	ERC1967Proxy
	getImplementation	External		-
	getAdmin	External		-
	changeAdmin	External	✓	-
<b>DividenDistributorV1</b>	Implementation	IDividenDistributor, Initializable, UUPSUpgradeable, AccessControlUpgradeable, SafeTokenRecoverUpgradeable, PausableUpgradeable		
	initialize	External	✓	initializer
	_authorizeUpgrade	Internal	✓	
	swapAndShareReward	External	✓	onlyRole
	shareReward	External	Payable	onlyRole
	_createReward	Internal	✓	
	_swapTokensForEth	Private	✓	lockTheSwap
	claimReward	External	✓	-
	batchClaimReward	External	✓	-
	_claim	Internal	✓	
	_calculateRewardAmount	Internal		
	_rewardExists	Internal		
	getTokenBalance	Public		-
	getBalance	Public		-

	setMainToken	External	✓	onlyRole
	_safeTransferETH	Internal	✓	
	excludedFromReward	External	✓	onlyRole
	_excludedFromReward	Internal	✓	
	buildingTradeDividendOfHolder	External		-
	getRewardIdsUnclaimed	Public		-
	getTotalUnclaimedReward	External		-
	supportsInterface	Public		-
	<Receive Ether>	External	Payable	-
	<Fallback>	External	Payable	-
<b>IDividendDistributor</b>	Interface			
	claimReward	External	✓	-
<b>IUniswapV2Router02</b>	Interface			
	swapExactTokensForETHSupportingFeeOnTransferTokens	External	✓	-
	factory	External		-
	WETH	External		-
	addLiquidityETH	External	Payable	-
<b>SafeTokenRecoverUpgradeable</b>	Implementation	Initializable, AccessControlUpgradeable		
	__SafeTokenRecover_init	Internal	✓	initializer
	__SafeTokenRecover_init_unchained	Internal	✓	initializer
	recoverERC20	External	✓	onlyRole
	rescueERC20	External	✓	onlyRole
<b>IERC20SnapshotUpgradeable</b>	Interface			
	balanceOfAt	External		-
	totalSupplyAt	External		-
	snapshot	External	✓	-
	lastSnapshotId	External		-

# Contract Flow



# Summary

The Smart Contract analysis reported no compiler error or critical issues. The contract cannot interrupt the user's transactions. The main functionality of the contract is the reward distribution. In this audit we focus on the business logic of the distributor, security investigation and suggest some improvements.



# Disclaimer

All the content provided in this document is for general information only and should not be used as financial advice or a reason to buy any investment.

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# About Coinscope

Coinscope is the leading early coin listing, voting and auditing authority firm. The audit process is analyzing and monitoring many aspects of the project. That way, it gives the community a good sense of security using an informative report and a generic score.

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

<https://www.coinscope.co>