

SMART CONTRACT AUDIT

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PREPARED FOR

PULSINATOR & PULSINATORBOOST



INTRODUCTION

Auditing Firm	InterFi Network
Client Firm	Pulsinator
Methodology	Automated Analysis, Manual Code Review
Language	Solidity
Pulsinator Contract	0xaEc98d2e60CD5FDf577cEc7A62f92580B1F89Ae6
PulsinatorBoost Contract	0x872e002bb606DFD6990Dd54461ad513009C1777f
Blockchain	Binance Smart Chain
Centralization NTERF	Active ownership ERFL INTERFL INTERFL AUDIT REPORT CONFIDENTIAL AUDIT REPORT CONFIDENTIAL AUDIT REPORT
Pulsinator Commit	ca7a7led8575dda75ab1b090d2e6021455fd9a7l
PulsinatorBoost Commit	715a16cc8714c7febfe46149fa152c8af55d54c5
Website	https://pulsinator.io/ http://www.boost.pulsinator.io/
Telegram	https://t.me/PulsinatorBSC/
Report Date	January 10, 2023

I Verify the authenticity of this report on our website: https://www.interfi.network/audits



EXECUTIVE SUMMARY

InterFi has performed the automated and manual analysis of solidity codes. Solidity codes were reviewed for common contract vulnerabilities and centralized exploits. Here's a quick audit summary:

Status	Critical	Major 🛑	Medium 🖯	Minor	Unknown
Open	0	1	1	5	1
Acknowledged	0	0	0	4	0
Resolved	0	0	0	0	0
Noteworthy Set Can Transfer Before, Update Fees, Set Max Wallet, Update Payout Toker Privileges Airdrop, Multi Send, Toggle Staking, Set Cooldown, Set Limits, Pause Dividends					•

INTERFI INTERFI INTERFI INTERFI INTERFI INTERFI INTERFI INTERFI AUDIT REPORT CONFIDENTIAL AUDIT REPORT

Please note that smart contracts deployed on blockchains aren't resistant to exploits, vulnerabilities and/or hacks. Blockchain and cryptography assets utilize new and emerging technologies. These technologies present a high level of ongoing risks. For a detailed understanding of risk severity, source code vulnerability, and audit limitations, kindly review the audit report thoroughly.

Please note that centralization privileges regardless of their inherited risk status - constitute an elevated impact on smart contract safety and security.



TABLE OF CONTENTS

TABLE OF CONTENTS	4
SCOPE OF WORK	5
AUDIT METHODOLOGY	6
RISK CATEGORIES	
CENTRALIZED PRIVILEGES	
AUTOMATED ANALYSIS1	
INHERITANCE GRAPH2	
MANUAL REVIEW2	
DISCLAIMERS4	5
ABOUT INTERFI NETWORK4	8



SCOPE OF WORK

InterFi was consulted by Pulsinator to conduct the smart contract audit of their solidity source codes.

The audit scope of work is strictly limited to mentioned solidity file(s) only:

- Pulsinator.sol
- o PulsinatorBoost.sol
- If source codes are not deployed on the main net, they can be modified or altered before mainnet deployment. Verify the contract's deployment status below:

Public Contract Link				
https://bscscan.com/token/	0xaec98d2e60cd5fdf577cec7a62f92580b1f89ae6#code			
Contract Name	Pulsinator			
Compiler Version	0.8.15			
License	MIT			

Public Contract Link			
https://bscscan.com/token/0x872e002bb606dfd6990dd54461ad513009c1777f#code			
Contract Name	PulsinatorBoost		
Compiler Version	0.8.15		
License	MIT		



AUDIT METHODOLOGY

Smart contract audits are conducted using a set of standards and procedures. Mutual collaboration is essential to performing an effective smart contract audit. Here's a brief overview of InterFi's auditing process and methodology:

CONNECT

 The onboarding team gathers source codes, and specifications to make sure we understand the size, and scope of the smart contract audit.

AUDIT

- Automated analysis is performed to identify common contract vulnerabilities. We may use the following third-party frameworks and dependencies to perform the automated analysis:
 - Remix IDE Developer Tool
 - Open Zeppelin Code Analyzer
 - SWC Vulnerabilities Registry
 - DEX Dependencies, e.g., Pancakeswap, Uniswap
- Simulations are performed to identify centralized exploits causing contract and/or trade locks.
- A manual line-by-line analysis is performed to identify contract issues and centralized privileges.
 We may inspect below mentioned common contract vulnerabilities, and centralized exploits:

	o Token Supply Manipulation
	o Access Control and Authorization
	o Assets Manipulation
Controlizad Evalaita	o Ownership Control
Centralized Exploits	o Liquidity Access
	 Stop and Pause Trading
	 Ownable Library Verification



	0	Integer Overflow
	0	Lack of Arbitrary limits
	0	Incorrect Inheritance Order
	0	Typographical Errors
	0	Requirement Violation
	0	Gas Optimization
	0	Coding Style Violations
Common Contract Vulnerabilities	0	Re-entrancy
	0	Third-Party Dependencies
	0	Potential Sandwich Attacks
	0	Irrelevant Codes
	0	Divide before multiply
	0	Conformance to Solidity Naming Guides
	REFERENCE	Compiler Specific Warnings
	0	Language Specific Warnings

REPORT

- o The auditing team provides a preliminary report specifying all the checks which have been performed and the findings thereof.
- o The client's development team reviews the report and makes amendments to solidity codes.
- o The auditing team provides the final comprehensive report with open and unresolved issues.

PUBLISH

- o The client may use the audit report internally or disclose it publicly.
- It is important to note that there is no pass or fail in the audit, it is recommended to view the audit as an unbiased assessment of the safety of solidity codes.



RISK CATEGORIES

Smart contracts are generally designed to hold, approve, and transfer tokens. This makes them very tempting attack targets. A successful external attack may allow the external attacker to directly exploit. A successful centralization-related exploit may allow the privileged role to directly exploit. All risks which are identified in the audit report are categorized here for the reader to review:

Risk Type	Definition
Critical •	These risks could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away.
Major	These risks are hard to exploit but very important to fix, they carry an elevated risk of smart contract manipulation, which can lead to high-risk severity.
Medium O	These risks should be fixed, as they carry an inherent risk of future exploits, and hacks which may or may not impact the smart contract execution. Low-risk reentrancy-related vulnerabilities should be fixed to deter exploits. These risks do not pose a considerable risk to the contract or those who interact
Minor •	with it. They are code-style violations and deviations from standard practices. They should be highlighted and fixed nonetheless.
Unknown	These risks pose uncertain severity to the contract or those who interact with it. They should be fixed immediately to mitigate the risk uncertainty.

All statuses which are identified in the audit report are categorized here for the reader to review:

Status Type	Definition
Open	Risks are open.
Acknowledged	Risks are acknowledged, but not fixed.
Resolved	Risks are acknowledged and fixed.



CENTRALIZED PRIVILEGES

Centralization risk is the most common cause of cryptography asset loss. When a smart contract has a privileged role, the risk related to centralization is elevated.

There are some well-intended reasons have privileged roles, such as:

- o Privileged roles can be granted the power to pause() the contract in case of an external attack.
- Privileged roles can use functions like, include(), and exclude() to add or remove wallets from fees, swap checks, and transaction limits. This is useful to run a presale and to list on an exchange.

Authorizing privileged roles to externally-owned-account (EOA) is dangerous. Lately, centralization-related losses are increasing in frequency and magnitude.

- o The client can lower centralization-related risks by implementing below mentioned practices:
- o Privileged role's private key must be carefully secured to avoid any potential hack.
- Privileged role should be shared by multi-signature (multi-sig) wallets.
- Authorized privilege can be locked in a contract, user voting, or community DAO can be introduced to unlock the privilege.
- Renouncing the contract ownership, and privileged roles.
- o Remove functions with elevated centralization risk.
- Understand the project's initial asset distribution. Assets in the liquidity pair should be locked.

 Assets outside the liquidity pair should be locked with a release schedule.



AUTOMATED ANALYSIS

| **Context** | Implementation | |||

Symbol	Definition
	Function modifies state
©s <u>e</u>	Function is payable
	Function is internal
	Function is private
Ţ	Function is important

Pulsinator

```
| L | _msgSender | Internal 🗎 | | |
| L | _msgData | Internal ៝ | _ | |
AUB-Preport confidential audit report
| **IUniswapV2Pair** | Interface | |||
| L | name | External ! | NO! |
| L | symbol | External ! | NO! |
| L | decimals | External ! | NO! |
| L | totalSupply | External ! | NO! |
| L | balanceOf | External ! |
                              |NO ! |
| L | allowance | External ! |
                               |N0 ! |
| L | approve | External ! | O | NO! |
| L | transfer | External ! | 🛑 |NO! |
| L | transferFrom | External ! | 🔴 |NO! |
| L | DOMAIN_SEPARATOR | External ! | NO! |
| L | PERMIT_TYPEHASH | External ! | NO! |
| L | nonces | External ! | NO! |
| L | permit | External ! | 🔴 |NO! |
| L | MINIMUM_LIQUIDITY | External ! |
```



```
| L | factory | External ! | NO! |
| L | token0 | External ! |
                            |NO ! |
| L | token1 | External ! |
                            |N0 ! |
| L | getReserves | External ! | NO! |
| L | priceOCumulativeLast | External ! |
                                         |NO ! |
| L | price1CumulativeLast | External ! |
                                         |NO ! |
| L | kLast | External ! |
                           |NO! |
| L | mint | External ! | WO! |
| L | burn | External ! | 🔴 |NO! |
| L | swap | External ! | •
                          |NO ! |
| L | skim | External ! | ● |NO! |
| L | sync | External ! | • | NO! |
| L | initialize | External ! | 🛑 |NO! |
\Pi\Pi\Pi\Pi
| **IUniswapV2Factory** | Interface | |||
| L | feeTo | External ! | |NO! |
| L | feeToSetter | External ! | NO! |
| L | getPair | External ! | NO! |
| L | allPairs | External ! | NO! |
| L | allPairsLength | External ! | NO! |
| L | createPair | External ! | 🔴 |NO! |
| L | setFeeTo | External ! | ● |NO! |
\Pi\Pi\Pi\Pi
| **IERC20** | Interface | |||
| L | totalSupply | External ! | NO! |
| L | balanceOf | External ! |
                               |NO! |
| L | transfer | External ! | 🔎 |NO! |
| <sup>L</sup> | allowance | External ! |
                               |NO ! |
| L | approve | External ! | • |NO! |
| L | transferFrom | External ! | 🔴 |NO! |
```



```
| **IERC20Metadata** | Interface | IERC20 |||
| L | name | External ! | NO! |
| L | symbol | External ! | NO! |
| L | decimals | External ! | NO! |
\Pi\Pi\Pi\Pi
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
| └ | <Constructor> | Public ! | ● |NO! |
| L | name | Public ! | | NO! |
| L | symbol | Public ! | NO! |
| L | decimals | Public ! | NO! |
| L | totalSupply | Public ! | NO! |
| L | balanceOf | Public ! | NO! |
| L | transfer | Public ! | 🛑 |NO! |
| <sup>L</sup> | allowance | Public ! |
| L | approve | Public ! | Public ! |
| L | transferFrom | Public ! | 🔴 |NO! |
| <sup>L</sup> | increaseAllowance | Public ! | 🛑
                                      |NO! |
| └ | decreaseAllowance | Public ! | ● |NO! |
| L | _transfer | Internal 🗎 | 🔎 | |
| L | _mint | Internal 🗎 | 🛑 | |
| L | _approve | Internal 🗎 | 🔴 | |
| └ | _beforeTokenTransfer | Internal 🔒 | ● | |
\Pi\Pi\Pi\Pi
| **DividendPayingTokenOptionalInterface** | Interface | |||
| L | withdrawableDividendOf | External ! | NO! |
| L | withdrawnDividendOf | External ! | NO! |
| L | accumulativeDividendOf | External ! | NO! |
| **DividendPayingTokenInterface** | Interface | |||
| L | dividendOf | External ! | NO! |
| L | distributeDividends | External ! | 🐸 |NO! |
```



```
| L | withdrawDividend | External ! | • | NO! |
\Pi\Pi\Pi\Pi
| **SafeMath** | Library | |
| <sup>L</sup> | add | Internal 🗎 |
| <sup>L</sup> | sub | Internal 🗎 |
| L | sub | Internal 🔒 |
| <sup>L</sup> | mul | Internal 🔒 |
                               1 1
| <sup>L</sup> | div | Internal <sup>@</sup> |
                               I I
| <sup>L</sup> | div | Internal <sup>©</sup> |
                               | |
| L | mod | Internal 🗎 |
                               | L | mod | Internal 🗎 |
                               III
\Pi\Pi\Pi\Pi
| **Ownable** | Implementation | Context |||
| L | <Constructor> | Public ! | • | NO! |
| L | owner | Public ! | NO! |
| L | renounceOwnership | Public ! | 🔴 | onlyOwner |
| L | transferOwnership | Public ! | 

| onlyOwner |
111111
| **SafeMathInt** | Library | |||
| <sup>L</sup> | mul | Internal <sup>@</sup> |
| <sup>L</sup> | div | Internal <sup>@</sup> |
| <sup>L</sup> | sub | Internal 🔒 |
                               | |
| <sup>L</sup> | add | Internal 🔒 |
                               | \cdot |
| <sup>L</sup> | abs | Internal <sup>@</sup> | | | | |
| └ | toUint256Safe | Internal 🗎 |
| **SafeMathUint** | Library | |||
| | | | | | | |
| **IUniswapV2Router01** | Interface | |||
| L | factory | External ! | NO! |
| L | WETH | External ! | NO! |
```



```
| L | addLiquidity | External ! | P | NO! |
| L | addLiquidityETH | External ! | 🐸 |NO! |
| └ | removeLiquidity | External ! | ● |NO! |
| └ | removeLiquidityWithPermit | External ! | ● |NO! |
| L | removeLiquidityETHWithPermit | External ! | O | NO! |
| L | swapExactTokensForTokens | External ! | 🛑 | NO! |
| └ | swapTokensForExactTokens | External ! | ● |NO! |
| L | swapExactETHForTokens | External ! | 💹 |NO! |
| └ | swapExactTokensForETH | External ! | ●
| L | swapETHForExactTokens | External ! | 🐸 |NO! |
| L | quote | External ! |
| L | getAmountOut | External ! |
| L | getAmountIn | External ! |
                                |NO |
| L | getAmountsOut | External ! | | NO! |
| L | getAmountsIn | External ! |
                                 |N0 ! |
111111
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
| L | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | 🛑 |NO! |
| └ | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | ● |NO! |
| └ | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | ● |NO! |
| L | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 🕮 |NO! |
| └ | swapExactTokensForETHSupportingFeeOnTransferTokens | External ' | ● |NO! |
111111
| **DividendPayingToken** | Implementation | ERC20, DividendPayingTokenInterface,
DividendPayingTokenOptionalInterface |||
| └ | <Constructor> | Public ! | ● | ERC20 |
| L | <Receive Ether> | External ! | 💹 |NO! |
| L | distributeDividends | Public ! | 🐸 |NO! |
| L | withdrawDividend | Public ! | WO! |
| L | _withdrawDividendOfUser | Internal 🔒 | 🛑 | |
```



```
| L | dividendOf | Public ! | NO! | | |
| L | withdrawableDividendOf | Public ! |
| L | withdrawnDividendOf | Public ! | NO! |
| L | accumulativeDividendOf | Public ! |
| L | _mint | Internal 🗎 | 🛑 | |
| **Pulsinator** | Implementation | ERC20, Ownable |||
| L | <Constructor> | Public ! | O | ERC20 |
| L | decimals | Public ! | NO! |
| L | <Receive Ether> | External ! | 💹 |NO! |
| L | updateStakingAmounts | Public ! | • | onlyOwner |
| L | enableTrading | External ! | 📦 | onlyOwner |
| L | setPresaleWallet | External ! | 🔴 | onlyOwner |
| └ | setExcludeFees | Public ! | ● | onlyOwner |
| └ | setExcludeDividends | Public ! | ● | onlyOwner |
| L | setIncludeDividends | Public ! | 🔴 | onlyOwner |
| L | setCanTransferBefore | External ! | GetCanTransferBefore | External ! | GetCanTransferBefore |
| └ | setLimitsInEffect | External ! | ● | onlyOwner |
| L | setGasPriceLimit | External ! | 🔴 | onlyOwner |
| L | setcooldowntimer | External ! | 📦 | onlyOwner |
| L | setmaxWallet | External ! | 🔴 | onlyOwner |
| L | enableStaking | Public ! | 🔎 | onlyOwner |
| L | stake | Public ! | • | NO! |
| L | setSwapTriggerAmount | Public ! | 🔴 | onlyOwner |
| L | enableSwapAndLiquify | Public ! | Good | onlyOwner |
| └ | setAutomatedMarketMakerPair | Public ! | ● | onlyOwner |
| L | setAllowCustomTokens | Public ! | OnlyOwner |
| L | setAllowAutoReinvest | Public ! | OnlyOwner |
```



```
| └ | _setAutomatedMarketMakerPair | Private 🔐 | 🛑 | |
| L | updateGasForProcessing | Public ! | 🔴 | onlyOwner |
| L | transferAdmin | Public ! | 🛑 | onlyOwner |
| └ | updateTransferFee | Public ! | ● | onlyOwner |
| L | updateFees | Public ! | OnlyOwner |
| L | getStakingInfo | External ! | NO! |
| L | getTotalDividendsDistributed | External ! | NO! |
| L | isExcludedFromFees | Public ! | NO! |
| L | withdrawableDividendOf | Public ! | NO! |
| L | dividendTokenBalanceOf | Public ! | NO! |
| L | getAccountDividendsInfo | External ! | NO! |
| L | getAccountDividendsInfoAtIndex | External ! | NO! |
| L | claim | External ! | 🛑 |NO! |
| L | getLastProcessedIndex | External ! |
                                        |NO ! |
| L | getNumberOfDividendTokenHolders | External ! |
                                                 |NO ! |
| L | setAutoClaim | External ! | 🛑 |NO! |
| L | setReinvest | External ! | ● |NO! |
| L | setDividendsPaused | External ! | • | onlyOwner |
| L | isExcludedFromAutoClaim | External ! | NO! |
| L | isReinvest | External ! | NO! |
| L | _transfer | Internal 🔒 | 🛑 | |
| └ | getStakingBalance | Private 🔐 | | |
| └ | swapAndLiquify | Private 🔐 | 🛑 | |
| L | updatePayoutToken | Public ! | 🔴 | onlyOwner |
| L | getPayoutToken | Public ! | NO! |
| └ | setMinimumTokenBalanceForAutoDividends | Public ! | ● | onlyOwner |
| L | setMinimumTokenBalanceForDividends | Public ! | 🔴 | onlyOwner |
| └ | addLiquidity | Private 🔐 | 🛑 | |
| └ | forceSwapAndSendDividends | Public ! | ● | onlyOwner |
```



```
| └ | swapAndSendDividends | Private 🔐 | ● | |
| L | multiSend | Public ! | 🔴 | onlyOwner |
| L | airdropToWallets | External ! | 🛑 | onlyOwner |
111111
| **PulsinatorDividendTracker** | Implementation | DividendPayingToken, Ownable |||
| L | decimals | Public ! | NO! |
| L | name | Public ! | NO! |
| L | symbol | Public ! | NO! |
| L | _transfer | Internal 🗎 | | |
| L | withdrawDividend | Public ! | NO! |
| L | isExcludedFromAutoClaim | External ! | onlyOwner |
| L | isReinvest | External ! | onlyOwner |
| L | setAllowCustomTokens | External ! | OnlyOwner |
| L | setAllowAutoReinvest | External ! | | onlyOwner |
| L | excludeFromDividends | External ! | 🔎 | onlyOwner |
| L | includeFromDividends | External ! | 🔎 | onlyOwner |
| L | setAutoClaim | External ! | 🛑 | onlyOwner |
| L | setReinvest | External ! | 🛑 | onlyOwner |
| L | setMinimumTokenBalanceForAutoDividends | External ! | 🔎 | onlyOwner |
| L | setMinimumTokenBalanceForDividends | External ! | 🔴 | onlyOwner |
| L | setDividendsPaused | External ! | 🛑 | onlyOwner |
| L | getLastProcessedIndex | External ! | NO! |
| L | getNumberOfTokenHolders | External ! | NO! |
| L | getAccount | Public ! | NO! |
| L | getAccountAtIndex | Public ! | NO! |
| L | setBalance | External ! | 🔴 | onlyOwner |
| L | process | Public ! | PNO! |
| L | processAccount | Public ! | • | onlyOwner |
| L | updateUniswapV2Router | Public ! | • | onlyOwner |
| L | updatePayoutToken | Public ! | Public ! | onlyOwner |
```



PulsinatorBoost

```
| **Context** | Implementation | |||
| L | _msgSender | Internal 🗎 | | |
| **IUniswapV2Pair** | Interface | |||
| L | name | External ! | | NO! |
| L | symbol | External ! | NO! |
| L | decimals | External ! | NO! |
| L | totalSupply | External ! | NO! |
| L | balanceOf | External ! |
                            |NO ! |
| L | allowance | External ! |
                            |NO ! |
| L | approve | External ! | 🛑 |NO! |
| L | transfer | External ! | 🔎 |NO! |
| L | transferFrom | External ! | 🔎 |NO! |
| L | DOMAIN_SEPARATOR | External ! | NO! |
| L | PERMIT_TYPEHASH | External ! | NO! |
| L | nonces | External ! | NO! |
| L | permit | External ! | 🔎 |NO! |
```



```
| L | MINIMUM_LIQUIDITY | External ! |
| L | factory | External ! |
| L | token0 | External ! |
                            |N0 ! |
| L | token1 | External ! |
                            |N0 ! |
| L | getReserves | External ! | NO! |
| L | priceOCumulativeLast | External ! |
                                         |N0 ! |
| L | price1CumulativeLast | External ! |
                                         |NO ! |
| L | kLast | External ! | NO! |
| L | mint | External ! | • | NO! |
| L | burn | External ! | 🔴
                           |NO ! |
| L | swap | External ! | 🔴 |NO! |
| L | skim | External ! | • | NO! |
| L | sync | External ! | • | NO! |
| L | initialize | External ! | 🛑 |NO! |
\Pi\Pi\Pi\Pi
| **IUniswapV2Factory** | Interface | |||
| L | feeTo | External ! | NO! |
| L | feeToSetter | External ! | NO! |
| L | getPair | External ! | NO! |
| L | allPairs | External ! | NO! |
| L | allPairsLength | External ! | NO! |
| L | createPair | External ! | 📦 |NO! |
| L | setFeeTo | External ! | ● |NO! |
\Pi\Pi\Pi\Pi
| **IERC20** | Interface | |||
| L | totalSupply | External ! |
                               |NO ! |
| L | balanceOf | External ! |
                               |N0 ! |
| L | transfer | External ! | 🔎 |NO! |
| L | allowance | External ! |
                               |NO ! |
| L | approve | External ! | 🛑 |NO! |
```



```
| L | transferFrom | External ! | P | NO! |
\Pi\Pi\Pi\Pi
| **IERC20Metadata** | Interface | IERC20 |||
| L | name | External ! | | NO! |
| L | symbol | External ! | NO! |
| L | decimals | External ! | NO! |
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
| └ | <Constructor> | Public ! | ● |NO! |
| L | name | Public ! | NO! |
| L | symbol | Public ! | NO! |
| L | decimals | Public ! | NO! |
| L | totalSupply | Public ! | NO! |
| L | balanceOf | Public ! | NO! |
| L | transfer | Public ! | 🛑 |NO! |
| <sup>L</sup> | allowance | Public ! | |NO! |
| L | approve | Public ! | O | NO! |
| L | transferFrom | Public ! | • | NO! |
| L | increaseAllowance | Public ! | 🔴 |NO! |
| L | decreaseAllowance | Public ! | ● |NO! |
| L | _transfer | Internal 🗎 | 🛑 | |
| L | _mint | Internal 🗎 | 🛑 | |
| └ | _approve | Internal 🍙 | ● | |
| └ | _beforeTokenTransfer | Internal 🗎 | ● | |
| **DividendPayingTokenOptionalInterface** | Interface | |||
| L | withdrawableDividendOf | External ! | NO! |
| L | withdrawnDividendOf | External ! | NO! |
| L | accumulativeDividendOf | External ! | NO! |
| **DividendPayingTokenInterface** | Interface | |||
```



```
| L | dividendOf | External ! | NO! | |
| L | distributeDividends | External ! | 🙉 |NO! |
| L | withdrawDividend | External ! | 📦 |NO! |
| **SafeMath** | Library |
| <sup>L</sup> | add | Internal 🔒 |
| <sup>L</sup> | sub | Internal 🔒 |
| <sup>L</sup> | sub | Internal <sup>@</sup> |
                               I I
| <sup>L</sup> | mul | Internal <sup>@</sup> |
                               III
| <sup>L</sup> | div | Internal <sup>@</sup> |
                               | <sup>L</sup> | div | Internal 🔒 |
                               I I
| L | mod | Internal 🗎 |
                               1 1
| <sup>L</sup> | mod | Internal 🔒 | | |
| **Ownable** | Implementation | Context |||
| <sup>L</sup> | <Constructor> | Public ! | 🔴 |NO! |
AUDI REPORT CONFIDENTIAL AUDIT REPORT CONFIDENTIAL AUDIT REPORT CONFIDENTIAL
| L | renounceOwnership | Public ! | OnlyOwner | |
| L | transferOwnership | Public ! | 🔴 | onlyOwner |
| **SafeMathInt** | Library | |||
\mid \mid \mid mul \mid Internal \mid \mid
| L | div | Internal 🔒 | | |
| <sup>L</sup> | sub | Internal <sup>@</sup> |
| <sup>L</sup> | add | Internal <sup>@</sup> |
| <sup>L</sup> | abs | Internal 🔒 |
| └ | toUint256Safe | Internal 🔒 |
| **SafeMathUint** | Library | |||
| L | toInt256Safe | Internal 🗎 |
111111
| **IUniswapV2Router01** | Interface | |||
```



```
| L | factory | External ! | NO! | |
| L | WETH | External ! | NO! |
| L | addLiquidity | External ! | 🛑 |NO! |
| L | addLiquidityETH | External ! | 🐸 |NO! |
| L | removeLiquidityETH | External ! | • | NO! |
| L | removeLiquidityWithPermit | External ! | P | NO! |
| └ | removeLiquidityETHWithPermit | External ! | ● |NO! |
| L | swapExactTokensForTokens | External ! | WO! |
| L | swapTokensForExactTokens | External ! | • | NO! |
| L | swapExactETHForTokens | External ! | 🕮 |NO! |
| └ | swapTokensForExactETH | External ! | ● |NO! |
| └ | swapExactTokensForETH | External ! | ● |NO! |
| L | swapETHForExactTokens | External ! | 💹 |NO! |
| <sup>L</sup> | quote | External ! |
| L | getAmountOut | External ! | NO! |
| L | getAmountIn | External ! |
                                 |NO! |
| L | getAmountsOut | External ! | NO! |
| L | getAmountsIn | External ! |
                                   |N0 ! |
111111
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
| └ | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | ● |NO! |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | 🛑 |NO! |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | 🔴 |NO! |
| L | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 💹 |NO! |
| └ | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● |NO! |
\Pi\Pi\Pi\Pi
| **DividendPayingToken** | Implementation | ERC20, DividendPayingTokenInterface,
DividendPayingTokenOptionalInterface |||
| L | <Constructor> | Public ! | 🛑 | ERC20 |
| L | <Receive Ether> | External ! | 💹 |NO! |
| L | distributeDividends | Public ! | 🐸 |NO! |
```



```
| L | withdrawDividend | Public ! | • | NO! | |
| L | _withdrawDividendOfUser | Internal 🔒 | 🛑 | |
| L | dividendOf | Public ! | NO! |
| L | withdrawnDividendOf | Public ! | NO! |
| L | accumulativeDividendOf | Public ! | NO! |
| L | _transfer | Internal 🔒 | 🛑 | |
| L | _mint | Internal 🗎 | 🔎 | |
| └ | _setBalance | Internal 🗎 | 🛑 | |
| **PulsinatorBoost** | Implementation | ERC20, Ownable |||
| └ | <Constructor> | Public ! | ● | ERC20 |
| L | decimals | Public ! | NO! |
| L | <Receive Ether> | External ! | 💹 |NO! |
| L | updateStakingAmounts | Public ! | 🔴 | onlyOwner |
| L | enableTrading | External ! | 🔎 | onlyOwner |
| L | setPresaleWallet | External ! | 🔴 | onlyOwner |
| └ | setExcludeFees | Public ! | ● | onlyOwner |
| L | setExcludeDividends | Public ! | • | onlyOwner |
| └ | setIncludeDividends | Public ! | ● | onlyOwner |
| L | setCanTransferBefore | External ! | 🔴 | onlyOwner |
| └ | setLimitsInEffect | External ! | ● | onlyOwner |
| L | setcooldowntimer | External ! | 🔎 | onlyOwner |
| L | setmaxWallet | External ! | 🔴 | onlyOwner |
| L | enableStaking | Public ! | 🔴 | onlyOwner |
| L | stake | Public ! | Public ! | | NO! |
| L | setSwapTriggerAmount | Public ! | • | onlyOwner |
| L | enableSwapAndLiquify | Public ! | OnlyOwner |
| └ | setAutomatedMarketMakerPair | Public ! | ● | onlyOwner |
```



```
| L | setAllowCustomTokens | Public ! | 🔴 | onlyOwner |
| L | setAllowAutoReinvest | Public ! | 🛑 | onlyOwner |
| └ | _setAutomatedMarketMakerPair | Private 🔐 | 🛑 | |
| └ | updateGasForProcessing | Public ! | ● | onlyOwner |
| L | transferAdmin | Public ! | 🔎 | onlyOwner |
| └ | updateTransferFee | Public ! | ● | onlyOwner |
| L | updateFees | Public ! | 🛑 | onlyOwner |
| L | getStakingInfo | External ! | NO! |
| L | getTotalDividendsDistributed | External ! | NO! |
| L | isExcludedFromFees | Public ! | NO! |
| L | withdrawableDividendOf | Public ! | NO! |
| L | dividendTokenBalanceOf | Public ! | NO! |
| L | getAccountDividendsInfo | External ! | NO! |
| L | getAccountDividendsInfoAtIndex | External ! | NO! |
| L | processDividendTracker | External ! | 🔎 |NO! |
| L | claim | External ! | 🛑 |NO! |
| L | getLastProcessedIndex | External ! | NO! |
| L | getNumberOfDividendTokenHolders | External ! | NO! |
| L | setAutoClaim | External ! | • | NO! |
| L | setReinvest | External ! | O | NO! |
| L | setDividendsPaused | External ! | OnlyOwner |
| L | isExcludedFromAutoClaim | External ! |
| L | isReinvest | External ! | NO! |
| └ | _transfer | Internal 🗎 | 🔎 | |
| L | swapTokensForEth | Private 🔒 | 🔴 | |
| L | updatePayoutToken | Public ! | 🔎 | onlyOwner |
| L | getPayoutToken | Public ! | NO! |
| L | setMinimumTokenBalanceForAutoDividends | Public ! | 🔴 | onlyOwner |
| └ | setMinimumTokenBalanceForDividends | Public ! | ● | onlyOwner |
```



```
| └ | addLiquidity | Private 🔐 | 🛑 | |
| L | forceSwapAndSendDividends | Public ! | OnlyOwner |
| L | swapAndSendDividends | Private 🔐 | 🔴 | |
| └ | multiSend | Public ! | ● | onlyOwner |
| L | airdropToWallets | External ! | Particle | onlyOwner |
\Pi\Pi\Pi\Pi
| **PulsinatorBoostDividendTracker** | Implementation | DividendPayingToken, Ownable |||
| L | decimals | Public ! | NO! |
| L | name | Public ! | NO! |
| L | symbol | Public ! | NO! |
| L | _transfer | Internal 🗎 | | |
| L | withdrawDividend | Public ! | NO! |
| L | isExcludedFromAutoClaim | External ! | onlyOwner |
| L | isReinvest | External ! | onlyOwner |
| L | setAllowCustomTokens | External ! | 🔴 | onlyOwner |
| L | setAllowAutoReinvest | External ! | 🔎 | onlyOwner |
| └ | excludeFromDividends | External ! | ● | onlyOwner |
| L | includeFromDividends | External ! | 🛑 | onlyOwner |
| L | setAutoClaim | External ! | • | onlyOwner |
| L | setReinvest | External ! | 🛑 | onlyOwner |
| L | setMinimumTokenBalanceForAutoDividends | External ! | 🔴 | onlyOwner |
| L | setMinimumTokenBalanceForDividends | External ! | 🔴 | onlyOwner |
| └ | setDividendsPaused | External ! | ● | onlyOwner |
| L | getLastProcessedIndex | External ! | NO! |
| L | getNumberOfTokenHolders | External ! | NO! |
| L | getAccount | Public ! | NO! |
| L | getAccountAtIndex | Public ! | NO! |
| L | setBalance | External ! | OnlyOwner |
| L | process | Public ! | 🛑 |NO! |
| L | processAccount | Public ! | 🔴 | onlyOwner |
```

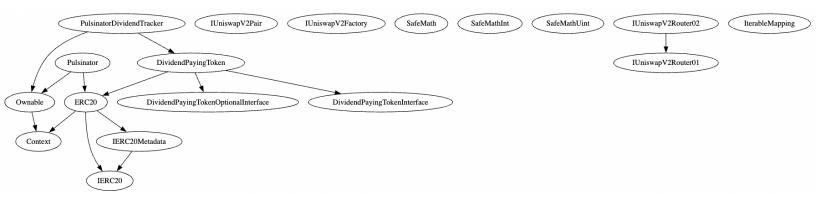


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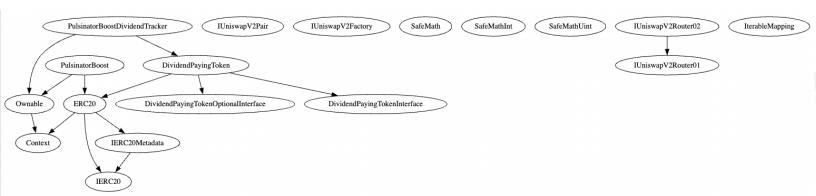


INHERITANCE GRAPH

Pulsinator



PulsinatorBoost





MANUAL REVIEW

Identifier	Definition	Severity
CEN-01	Centralization privileges of Pulsinator and PulsinatorBoost	Major 🛑
PSN-01	Privileged role allowing a wallet to trade before trading is enabled	iviajoi

Pulsinator

Important centralized privileges are listed below:

transfer0wnership $update {\tt Staking Amounts}$ enableTrading setPresaleWallet setExcludeFees setExcludeDividends setIncludeDividends setCanTransferBefore setLimitsInEffect setGasPriceLimit setcooldowntimer setmaxWallet enableStaking $\verb"setSwapTriggerAmount"$ enableSwapAndLiquify setAutomatedMarketMakerPair setAllowCustomTokens setAllowAutoReinvest updateGasForProcessing transferAdmin updateTransferFee updateFees setDividendsPaused updatePayoutToken setMinimumTokenBalanceForAutoDividends $\verb|setMinimumTokenBalanceForDividends| \\$







forceSwapAndSendDividends

multiSend airdropToWallets isExcludedFromAutoClaim setAllowCustomTokens setAllowAutoReinvest excludeFromDividends includeFromDividends setAutoClaim setReinvest ${\tt setMinimumTokenBalanceForAutoDividends}$ setMinimumTokenBalanceForDividends setDividendsPaused setBalance processAccount updateUniswapV2Router updatePayoutToken

PulsinatorBoost

Important centralized privileges are listed below:

transferOwnership updateStakingAmounts enableTrading setPresaleWallet setExcludeFees setExcludeDividends setIncludeDividends setCanTransferBefore setLimitsInEffect setGasPriceLimit setcooldowntimer setmaxWallet enableStaking setSwapTriggerAmountenableSwapAndLiquify setAutomatedMarketMakerPairsetAllowCustomTokens setAllowAutoReinvest updateGasForProcessing



transferAdmin updateTransferFeeupdateFees setDividendsPaused updatePayoutToken setMinimumTokenBalanceForAutoDividends setMinimumTokenBalanceForDividends forceSwapAndSendDividendsmultiSend airdropToWallets isExcludedFromAutoClaim setAllowCustomTokens setAllowAutoReinvest excludeFromDividends includeFromDividends setAutoClaim setReinvest $\verb|setMinimumTokenBalanceForAutoDividends| \\$ setMinimumTokenBalanceForDividends setDividendsPaused setBalance processAccount updateUniswapV2Router update Payout Token



RECOMMENDATION

Deployer and/or contract owner private keys must be secured carefully. Please refer to PAGE-09 CENTRALIZED PRIVILEGES for a detailed understanding.



Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor •

All of the initially minted assets are sent to the contract deployer when deploying the contract. This can be an issue as the deployer and/or contract owner can distribute tokens without consulting the community.

Pulsinator

```
uint256 totalTokenSupply = (1_000_000_000) * (10**18);
_mint(owner(), totalTokenSupply); // only time internal mint function is ever called is to create supply
```

PulsinatorBoost

```
uint256 totalTokenSupply = (1_000_000) * (10**18);
_mint(owner(), totalTokenSupply); // only time internal mint function is ever called is to create supply
```

RECOMMENDATION

Project must communicate with stakeholders and obtain the community consensus while distributing assets.



Identifier	Definition	Severity
CEN-04	Privileged role receiving LP tokens	Minor •

```
In both contracts, function addLiqudity() sends liquidity to owner()
  function addLiquidity(uint256 tokenAmount, uint256 ethAmount) private {
     // approve token transfer to cover all possible scenarios
     _approve(address(this), address(uniswapV2Router), tokenAmount);
     // add the liquidity
     uniswapV2Router.addLiquidityETH{value: ethAmount}(
         address(this),
         tokenAmount,
        0, // slippage is unavoidable
        0, // slippage is unavoidable
        owner(),
        block.timestamp
    );
```



RECOMMENDATION

Send LP tokens to dead address or unreachable address.



Identifier	Definition	Severity
CEN-06	Privileged role modifying pair and router	Minor •

In both contracts, privileged role can call setAutomatedMarketPair()

```
function setAutomatedMarketMakerPair(address pair, bool value)
   public
   onlyOwner
{
    _setAutomatedMarketMakerPair(pair, value);
}
```

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RECOMMENDATION

The current trading pair, e.g., Pancakeswap or Uniswap pair should not be removed from automated market makers.



Identifier	Definition	Severity
LOG-01	Lack of arbitrary limits	

In both contracts, below mentioned functions are set without any arbitrary limits.

setSwapTriggerAmount()
setMinimumTokenBalanceForAutoDividends()
setMinimumTokenBalanceForDividends()

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RECOMMENDATION

These functions should be provided arbitrary limits, e.g., put a require check that allows maximum tax change up to 25%.



Identifier	Definition	Severity
LOG-02	Potential sandwich attack	Minor •

Potential sandwich attack happens when an attacker observes a transaction swapping tokens or adding liquidity without setting restrictions on slippage or minimum output amount. The attacker can manipulate the exchange rate by front-running a transaction to purchase assets and make profits by back-running a transaction to sell assets. In both contracts, below mentioned functions are called without setting restrictions on slippage or minimum output:

addLiquidityETH
swapExactTokensForETHSupportingFeeOnTransferTokens

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RECOMMENDATION

These functions should be provided reasonable minimum output amounts, instead of zero. Read more: https://coinmarketcap.com/alexandria/article/what-are-sandwich-attacks-in-defi-and-how-can-you-avoid-them



Identifier	Definition	Severity	
LOG-03	Check Effect Interaction	Medium 🖯	

In both contracts, below mentioned functions are used without check effect interaction verification:

stake()
withdrawDividend()

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RECOMMENDATION

Verify check effect interaction for aforementioned functions or introduce re-entrancy guard. It is used to prevent re-entrant calls. Learn about re-entrancy guard: https://consensys.github.io/smart-contract-best-practices/attacks/reentrancy/



Identifier	Definition	Severity
COD-01	Authorization through tx.origin	Unknown

Using tx.origin for authorization could make the contract vulnerable as it refers to the original external account that started the transaction.

In both contracts, tx.origin is utilized.

Lines 1396, 1496, 1498, 1512, 1513, 1593.

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RECOMMENDATION

Avoid authorizations via global variables wherever necessary.



Identifier	Definition	Severity
COD-02	Timestamp manipulation via block.timestamp Avoid using block.number as timestamp	Minor •

Be aware that the timestamp of the block can be manipulated by a miner. When the contract uses the timestamp to seed a random number, the miner can actually post a timestamp within 15 seconds of the block being validated, effectively allowing the miner to precompute an option more favorable to their chances.

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RECOMMENDATION

To maintain block integrity, follow 15 seconds rule, and scale time dependent events accordingly.



Identifier	Definition	Severity
COD-06	Unknown externally owned account	Minor •

An externally owned account (EOA) has no code, and one can send messages from an externally owned account by creating and signing a transaction.

Pulsingtor

MarketingAndPulseTrading = payable(0xc7E51e4DfA4A039Bd3a3708022509c0D44022e9f); devWallet = payable(0x1973Aef7dB46330e4187c29082bc327311886030);

PulsinatorBoost

MarketingAndPulseBTrading = payable(0xc7E51e4DfA4A039Bd3a3708022509c0D44022e9f); devWallet = payable(0x1973Aef7dB46330e4187c29082bc327311886030);

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RECOMMENDATION

Private keys of externally owned accounts must be secured carefully.



Identifier	Definition	Severity
COD-09	Lack of contract balance withdraw	

Smart contract may collect tokens, and ethers from external addresses. Some swap, and liquidity-add events may accumulate residual ethers, and tokens.

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RECOMMENDATION

Add withdraw() function to take out tokens and ethers from the contract.



Identifier	Definition	Severity
COD-10	Third Party Dependencies	Minor •

In both contracts, contract logic is interacting with third party protocols e.g., Pancakeswap, Apeswap, Open Zeppelin imports. The scope of the audit treats third party entities as black boxes and assumes their functional correctness. However, in the real world, third parties can be compromised, and exploited. Moreover, upgrades in third parties can create severe impacts, e.g., increased transactional fees, deprecation of previous routers, etc.

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RECOMMENDATION

Inspect third party dependencies regularly, and mitigate severe impacts whenever necessary.



Identifier	Definition	Severity
VOL-01	Redundant and non-conforming code in both contracts	Minor •

Redundant code in SafeMath and multiSend.

Use of SafeMath is redundant after compiler 8.0.

multiSend declares redundant uint256 sumOfBalances = 0



RECOMMENDATION

Remove redundant code.



Identifier	Definition	Severity
COM-01	Floating compiler status in both contracts	

Compiler is set to ^0.8.15.





RECOMMENDATION

Pragma should be fixed to the version that you're indenting to deploy your contracts with.



Identifier	Definition	Severity
COM-03	Hardcoded gas amount in both contracts	Minor •

```
Gas amount is set to gasForProcessing = 300000;
function processDividendTracker(uint256 gas) external {
    (
        uint256 iterations,
        uint256 claims,
        uint256 lastProcessedIndex
    ) = dividendTracker.process(gas);
emit ProcessedDividendTracker(
        iterations,
        claims,
        lastProcessedIndex,
        false,
        gas,
        tx.origin
    );
}
```





RECOMMENDATION

Stop the dividendTracker.process() call in the processDividendTracker(). Users should claim their rewards manually through the function claim().



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