

Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

Pepe BUSD



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OVERVIEW

The Expelee team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analysed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

Audit Result	Passed	
KYC Verification	_	
Audit Date	10 May 2023	



CONTRACT DETAILS

Token Name: Pepe BUSD

Symbol: PEPEBUSD

Network: Binance

Language: Solidity

Contract Address: 0x46492571242D3fEbA2Dd3A041efa0ea8185A8F30

Total Supply: 420690000000000

Contract SHA-256 Checksum:

Owner's Wallet:

0x0b09829e9d9746e4018c9aac67030700b4a7673e

Testnet:

https://testnet.bscscan.com/address/0xe04ad609ddd16a5 4e1560f5ef59a45169839e016



OWNER PRIVILEGES

- Owner can exclude accounts from rewards
- Owner can exclude accounts from fees
- Owner can change buy/sell and wallet to wallet transfer fees with limit up to 10%
- Trading must be enabled by the owner
- Owner can change swap settings
- Owner can change the swap tokens at amount within reasonable limit
- Owner can withdraw any token(except native token) from the contract
- Owner can change updateMinimumBalanceForDividends
- Owner can change updateClaimWait
- Owner can change updateGasForProcessing
- Owner can change updateLastProcessedIndex
- Owner can change the treasury wallet



AUDIT METHODOLOGY

Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.

Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.

Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability

Tools

- DE
- Open Zeppelin
- Code Analyzer
- Solidity Code
- Compiler
- Hardhat



VULNERABILITY CHECKS

Design Logic	Passed
Compiler warnings	Passed
Private user data leaks	Passed
Timestamps dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front Running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zepplin module	Passed



RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and acces control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

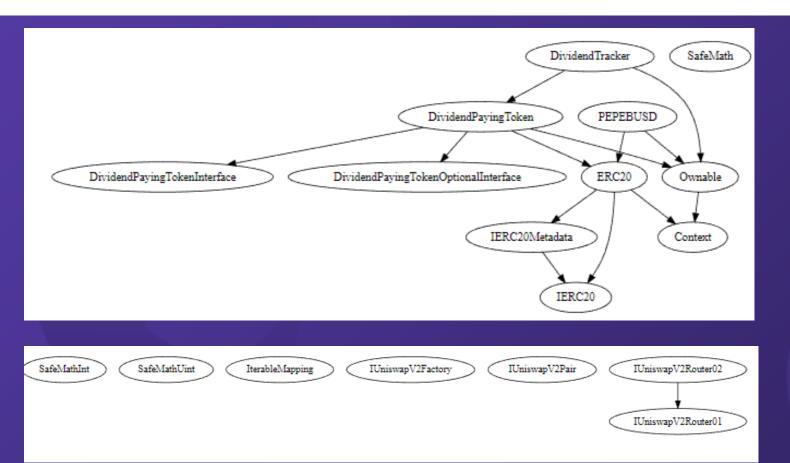
Issues on this level are minor details and warning that can remain unfixed.

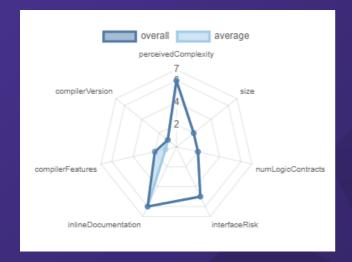
Informational

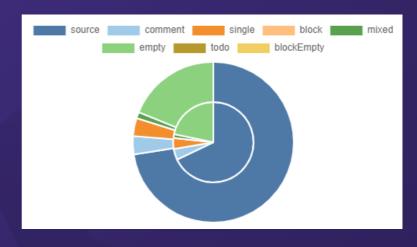
Issues on this level are minor details and warning that can remain unfixed.



INHERITANCE TREES









```
Contract |
               Type
                          Bases
| L | **Function Name** | **Visibility** | **Mutability** | **Modifiers**
| **Context** | Implementation | ||| |
| L | _msgSender | Internal 🔒 | | |
| L | _msgData | Internal 🔒 | | |
| **Ownable** | Implementation | Context | | |
| L | <Constructor> | Public | | ● | NO ! |
L owner Public | NO!
L | renounceOwnership | Public | | • | onlyOwner |
L | transferOwnership | Public | | • | onlyOwner |
 L | _transferOwnership | Internal 🔒 | 🛑 | |
| **SafeMath** | Library | |
| L | add | Internal 🔒 |
| L | sub | Internal 🔒 |
| L | sub | Internal 🔒 |
| L | mul | Internal 🔒 |
 L | div | Internal 🔒 |
 L | div | Internal 🔒 |
 L | mod | Internal 🔒 |
| L | mod | Internal 🔒 |
1111111
 **SafeMathInt** | Library | |||
 L | mul | Internal 🔒 | | |
 L | div | Internal 🔒 |
| L | sub | Internal 🔒 | | |
| L | add | Internal 🔒 |
| L | abs | Internal 🔒 | | |
| L | toUint256Safe | Internal 🔒 |
1111111
 **SafeMathUint** | Library | |||
| L | toInt256Safe | Internal 🔒 | | |
111111
| **IterableMapping** | Library | ||| |
| L | get | Public ! | | NO! |
| L | getIndexOfKey | Public ! |
| L | getKeyAtIndex | Public | | NO | |
 L | size | Public | | NO ! |
L set Public ! | NO! |
| L | remove | Public ! | ● | NO! |
| **IUniswapV2Factory** | Interface | |||
L feeTo External NO!
| L | feeToSetter | External | NO ! |
```



```
**IUniswapV2Pair** | Interface | |||
 L | name | External | | NO ! |
 L | symbol | External ! | NO! |
     decimals | External | NO |
 L | totalSupply | External | | NO ! |
   | balanceOf | External | NO |
   | allowance | External |
                               I NO
   | approve | External | | • | NO | |
     transfer | External ! | • | NO !
   transferFrom | External | |
 L | DOMAIN_SEPARATOR | External ! |
   | PERMIT_TYPEHASH | External | |
                                    NO!
   | nonces | External | | NO ! |
   | permit | External ! | • | NO ! |
 L | MINIMUM LIQUIDITY | External ! |
 L | factory | External | | NO | |
 L | token0 | External ! |
 L | token1 | External ! | NO! |
 L | getReserves | External | | NO ! |
   | price0CumulativeLast | External | | |
   | price1CumulativeLast | External ! |
   | kLast | External | NO | |
     mint | External ! | •
                            NO !
 L | burn | External ! | ●
 L | swap | External ! |
                            NO !
 L | skim | External !
                            NO !
   | sync | External ! | ●
                            NO !
 L | initialize | External | | • | NO !
1111111
| **IUniswapV2Router01** | Interface | |||
 L | factory | External | | NO | |
 L | WETH | External | NO ! |
 L | addLiquidity | External | | • | NO ! |
   | addLiquidityETH | External | | II | NO |
   | removeLiquidity | External | | • | NO !
   | removeLiquidityETH | External | | • | NO ! |
   | removeLiquidityWithPermit | External | | • | NO !
   | removeLiquidityETHWithPermit | External | | • | NO !
     swapExactTokensForTokens | External | |
                                              NO !
     swapTokensForExactTokens | External |
                                      NO !
   | swapExactETHForTokens | External |
   | swapTokensForExactETH | External |
   | swapExactTokensForETH | External | | • | NO !
   L | quote | External | | NO !
 L | getAmountOut | External ! |
     getAmountIn | External | |
     getAmountsOut | External ! |
                                 NO !
     getAmountsIn | External | |
1111111
 **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||
 | removeLiquidityETHSupportingFeeOnTransferTokens | External | | • | NO ! |
     removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | •
     swapExactTokensForTokensSupportingFeeOnTransferTokens | External | |
     swapExactETHForTokensSupportingFeeOnTransferTokens | External | 📭 | NO | |
     swapExactTokensForETHSupportingFeeOnTransferTokens | External |
```



```
**IERC20** | Interface | |||
 L | totalSupply | External ! |
                               INO!
| L | balanceOf | External ! | | | |
| L | allowance | External | | NO | |
| L | transfer | External ! | 🛑 |NO! |
1111111
| **IERC20Metadata** | Interface | IERC20 |||
 L | name | External | | NO |
| L | symbol | External ! | NO! |
 L | decimals | External ! | NO! |
HIIII
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata | | |
 L | <Constructor> | Public ! | ●
                                I NO I
 L | name | Public ! | NO! |
 L | symbol | Public | | | NO | |
| L | decimals | Public ! |
                          I NO
 L | totalSupply | Public | | NO | |
 L | balanceOf | Public ! |
                           NO !
L | approve | Public ! | • | NO! |
 | L | decreaseAllowance | Public ! | ● | NO! |
 L | _transfer | Internal 🔒 | 🛑 | |
 └ | _mint | Internal 🔒 | ● | |
 L | _burn | Internal 🔒 | 🌑
 L | _approve | Internal 🔒 | 🌘 | |
 L | _beforeTokenTransfer | Internal 🔒 | 🌘 | |
1111111
| **DividendPayingTokenInterface** | Interface | |||
 L | dividendOf | External | | NO ! |
| L | withdrawDividend | External ! | ● |NO! |
HIIII
| **DividendPayingTokenOptionalInterface** | Interface | |||
 L | withdrawableDividendOf | External | NO ! |
 L | withdrawnDividendOf | External | | NO ! |
| L | accumulativeDividendOf | External ! | NO! |
1111111
| **DividendPayingToken** | Implementation | ERC20, Ownable, DividendPayingTokenInterface, DividendPayingTokenOptionalInterface | | |
 L | <Constructor> | Public ! | ● | ERC20 |
| L | distributeDividends | Public | | ● | onlyOwner |
 L | withdrawDividend | Public | | • | NO ! |
 L | _withdrawDividendOfUser | Internal 🔒 | 🛑 | |
 L | dividendOf | Public | | NO | |
| L | withdrawableDividendOf | Public ! |
 L | withdrawnDividendOf | Public ! |
 L | accumulativeDividendOf | Public ! | NO ! |
 L | _transfer | Internal 🔒 | 🛑 | |
| L | _mint | Internal 🔒 | 🛑 | |
 L | _burn | Internal 🔒 | 🛑 | |
     _setBalance | Internal 🔒 | 🌑 | |
111111
| **DividendTracker** | Implementation | Ownable, DividendPayingToken |||
 L | ⟨Constructor⟩ | Public | | ● | DividendPayingToken |
 L | _transfer | Internal 🔒 | | |
 L | withdrawDividend | Public | |
```



```
updateMinimumTokenBalanceForDividends | External | | • | onlyOwner |
    excludeFromDividends | External | | • | onlyOwner |
    updateClaimWait | External ! | ● | onlyOwner |
    setLastProcessedIndex | External | | • | onlyOwner |
    getLastProcessedIndex | External ! |
   getNumberOfTokenHolders | External | NO ! |
   getAccount | Public | NO ! |
   getAccountAtIndex | Public | NO! |
 L | canAutoClaim | Private 🔐 |
   setBalance | External | | • onlyOwner |
    process | Public | | • | NO ! |
   | processAccount | Public | | • | onlyOwner | |
| **PEPEBUSD** | Implementation | ERC20, Ownable |||
   | <Constructor> | Public | | III | ERC20 |
   | claimStuckTokens | External | | | | onlyOwner |
   | isContract | Internal 🔒 |
   | sendBNB | Internal 🔒 | 🌑
    _setAutomatedMarketMakerPair | Private 🔐 | 🛑
   | excludeFromFees | External | | • | onlyOwner |
   | isExcludedFromFees | Public | | NO | |
   | updateBuyFees | External | | • | onlyOwner |
   | updateSellFees | External | | • | onlyOwner |
   | updateTransferFee | External | | • | onlyOwner |
   | changeTreasuryWallet | External | | • | onlyOwner |
   | enableTrading | External | | • | onlyOwner |
    _transfer | Internal 🔒 | 🛑 | |
   | swapAndLiquify | Private 🔐 | 🛑 | |
 L | swapAndSendDividends | Private 🔐 | ● | |
   setSwapTokensAtAmount | External | | • | onlyOwner |
   | setSwapEnabled | External | | • | onlyOwner |
   | updateGasForProcessing | Public | | • | onlyOwner |
   | updateMinimumBalanceForDividends | External | | • | onlyOwner |
    updateClaimWait | External | | • | onlyOwner |
    getClaimWait | External ! |
                               NO!
     getTotalDividendsDistributed | External !
   | withdrawableDividendOf | Public | NO | |
   | dividendTokenBalanceOf | Public |
   | totalRewardsEarned | Public | | NO ! |
   excludeFromDividends | External | | • | onlyOwner |
   getAccountDividendsInfo | External | NO |
   getAccountDividendsInfoAtIndex | External | NO |
    processDividendTracker | External | | NO |
   | claim | External | | • | NO ! |
   | claimAddress | External ! | ●
                                  onlyOwner
   getLastProcessedIndex | External | NO |
   | setLastProcessedIndex | External | | • | onlyOwner |
     getNumberOfDividendTokenHolders | External | | NO | |
```



MANUAL REVIEW

Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to methodology based on OWASP standarts.

Vulnerabilities are dividend into three primary risk categroies:

High

Medium

Low

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious input handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity						
Impact	HIGH	Medium	High	Critical		
	MEDIUM	Low	Medium	High		
	LOW	Note	Low	Medium		
		LOW	MEDIUM	HIGH		
	Likelihood					



FINDINGS

Findings	Severity	Found
High Risk	High	1
Medium Risk	Medium	0
Low Risk	Low	5
Suggestion & discussion	Informational	6
Gas Optimizations	● Gas Opt.	0



HIGH RISK FINDING

Trading must be enabled by the owner

Severity : High

Type: Centralisation Risk

Overview

Function enables trading by setting the **tradingEnabled** and **swapEnabled** flags to **true**

```
function enableTrading() external onlyOwner{
    require(!tradingEnabled, "Trading already enabled.");
    tradingEnabled = true;
    swapEnabled = true;
}
```

Recommendation



Owner can exclude accounts from fees

Severity: Low

Overview

Excludes/Includes an address from the collection of fees

```
function excludeFromFees(address account, bool excluded) external onlyOwner {
    require(_isExcludedFromFees[account] != excluded, "Account is already set to that state");
    _isExcludedFromFees[account] = excluded;
    emit ExcludeFromFees(account, excluded);
}
```

Recommendation



Owner can change buy/sell and wallet to wallet transfer fees with limit up to 10%

Severity: Low

Overview

Functions that allows the owner of the contract to update the buy/sell/transfer fees of the contract. These functions assumes that the input parameters are valid and do not exceed the maximum limit of 10%

```
function updateBuyFees(uint256 _liquidityFeeOnBuy, uint256 _treasuryFeeOnBuy, uint256 _rewardsFeeOnBuy) external onlyOwner {
    liquidityFeeOnBuy = _liquidityFeeOnBuy;
    treasuryFeeOnBuy = _treasuryFeeOnBuy;
    rewardsFeeOnBuy = _rewardsFeeOnBuy;

    totalBuyFee = _liquidityFeeOnBuy + _treasuryFeeOnBuy + _rewardsFeeOnBuy;

    require(totalBuyFee <= 10, "Buy fee cannot be more than 10%");

    emit BuyFeesUpdated(totalBuyFee);
}</pre>
```

```
function updateSellFees(uint256 _liquidityFeeOnSell, uint256 _treasuryFeeOnSell, uint256 _rewardsFeeOnSell) external onlyOwner {
    liquidityFeeOnSell = _liquidityFeeOnSell;
    treasuryFeeOnSell = _treasuryFeeOnSell;
    rewardsFeeOnSell = _rewardsFeeOnSell;

    totalSellFee = _liquidityFeeOnSell + _treasuryFeeOnSell + _rewardsFeeOnSell;

    require(totalSellFee <= 10, "Sell fee cannot be more than 10%");

    emit SellFeesUpdated(totalSellFee);
}</pre>
```

```
function updateTransferFee(uint256 _transferFee) external onlyOwner {
   transferFee = _transferFee;
   require(transferFee <= 10, "Transfer fee cannot be more than 10%"); //@audit-ok - no emit
}</pre>
```

Recommendation



Owner can change swap settings

Severity: Low

Overview

setSwapEnabled function allows the contract owner to enable or disable the automatic swapping of tokens for ETH.

```
function setSwapEnabled(bool _enabled) external onlyOwner{
    require(swapEnabled != _enabled, "swapEnabled already at this state.");
    swapEnabled = _enabled;
}
```

Recommendation

It is recommended to ensure that the contract owner account is well secured and only accessible by authorized parties.



Owner can change the swap tokens at amount within reasonable limit

Severity: Low

Overview

setSwapTokensAtAmount function allows the owner to set the minimum number of tokens required to trigger an automatic swap.

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
    require(newAmount > totalSupply() / 100_000, "SwapTokensAtAmount must be greater than 0.001% of total supply");
    swapTokensAtAmount = newAmount;
}
```

Recommendation

It's important to ensure that the new **swapTokensAtAmount** value is reasonable and will not adversely affect the functioning of the token or any associated systems.



Unchecked transfer

Severity: Low

Overview

The return value of an external transfer/transferFrom call is not checked

```
function withdrawDividend() public virtual override {
    _withdrawDividendOfUser(payable(msg.sender)); //@audit-issue -
    processAccount(account, true); //audit-issue unchecked return value
function claimStuckTokens(address token) external onlyOwner {
     require(token != address(this), "Owner cannot claim native tokens");
     if (token == address(0x0)) {
         sendBNB(payable(msg.sender), address(this).balance); //@audit-issu
        return;
    IERC20 ERC20token = IERC20(token);
    uint256 balance = ERC20token.balanceOf(address(this));
     ERC20token.transfer(msg.sender, balance); //@audit-issue - unchecked :
sendBNB(payable(treasuryWallet), treasuryBNB); //@audit-issue - unchecked return value
 uniswapV2Router.addLiquidityETH{value: newBalance}(
   address(this),
     otherHalf,
     0, // slippage is unavoidable
     0, // slippage is unavoidable
     block.timestamp
 ); //@audit-issue - unchecked return value
function claimAddress(address claimee) external onlyOwner {
   dividendTracker.processAccount(payable(claimee), false); //@audit-issue - unchecked return value
```

Recommendation

Use SafeERC20, or ensure that the transfer/transferFrom return value is checked.



Owner can withdraw any token(except native token) from the contract

Severity: Informational

Overview

claimStuckTokens function allows the contract owner to recover any ERC20 tokens or BNB that were mistakenly sent to the contract's address. There are require statement to prevent the owner from accidentally claiming the native token.

```
//@audit-ok - Owner can withdraw any token(except native token) from the contract
0 references|Control flow graph|f9d0831a
function claimStuckTokens(address token) external onlyOwner {
    require(token != address(this), "Owner cannot claim native tokens");
    if (token == address(0x0)) {
        sendBNB(payable(msg.sender), address(this).balance); //@audit-issue - uncharacterun;
    }
    IERC20 ERC20token = IERC20(token);
    uint256 balance = ERC20token.balanceOf(address(this));
    ERC20token.transfer(msg.sender, balance); //@audit-issue - unchacked return va
}
```

Recommendation

It is generally considered safe for a contract owner to claim stuck tokens, but it's important to ensure that the owner is not abusing this function to steal tokens. In this implementation, there is a require statement that ensures that the **owner cannot claim the native token** of the blockchain on which the contract is deployed.



Owner can exclude accounts from rewards

Severity: Informational

Overview

Function that allows the owner of the contract to exclude an address from receiving dividends

```
function excludeFromDividends(address account) external onlyOwner {
    require(!excludedFromDividends[account]);
    excludedFromDividends[account] = true;

    _setBalance(account, 0);
    tokenHoldersMap.remove(account);

emit ExcludeFromDividends(account);
}
```

Recommendation



Missing events

Severity: Informational

Overview

Detect missing events for critical access control parameters

```
function enableTrading() external onlyOwner{
    require(!tradingEnabled, "Trading already enabled.");
    tradingEnabled = true;
     swapEnabled = true;
function updateClaimWait(uint256 newClaimWait) external onlyOwner {
   require(newClaimWait >= 3_600 && newClaimWait <= 86_400, "claimWait must be updated to between 1 and 24 hours");
require(newClaimWait! = claimWait, "Cannot update claimWait to same value");
emit ClaimWaitUpdated(newClaimWait, claimWait);
   claimWait = newClaimWait;
 function claimStuckTokens(address token) external onlyOwner {
     require(token != address(this), "Owner cannot claim native tokens");
     if (token == address(0x0)) {
          sendBNB(payable(msg.sender), address(this).balance); //@audit-ok
     IERC20 ERC20token = IERC20(token);
     uint256 balance = ERC20token.balanceOf(address(this));
     ERC20token.transfer(msg.sender, balance); //@audit-ok - unchecked retu
function updateTransferFee(uint256 _transferFee) external onlyOwner {
     transferFee = _transferFee;
     require(transferFee <= 10, "Transfer fee cannot be more than 10%"); //@audit-issue - no emit
 function updateMinimumTokenBalanceForDividends(uint256 _newMinimumBalance) external onlyOwner {
    require(_newMinimumBalance != minimumTokenBalanceForDividends,
    minimumTokenBalanceForDividends = _newMinimumBalance;
function setSwapEnabled(bool _enabled) external onlyOwner{
   require(swapEnabled != _enabled, "swapEnabled already at this state.");
    swapEnabled = _enabled;
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
    require(newAmount > totalSupply() / 100_000, "SwapTokensAtAmount must be greater than 0.001% of total supply");
    swapTokensAtAmount = newAmount;
```

Recommendation

Emit an event for critical parameter changes.



tx.origin detected

Severity: Informational

Overview

tx.origin-based protection can be abused by a malicious contract if a legitimate user interacts with the malicious contract

```
function processDividendTracker(uint256 gas) external {
   (uint256 iterations, uint256 claims, uint256 lastProcessedIndex) = dividendTracker.process(gas);
   emit ProcessedDividendTracker(iterations, claims, lastProcessedIndex, false, gas, tx.origin);
} //@audit-issue - tx.origin used in an unsafe manner
```

emit ProcessedDividendTracker(iterations, claims, lastProcessedIndex, true, gas, tx.origin);

Recommendation

It is recommended to replace the **tx.origin** variable with **msg.sender**, which refers to the address of the caller of the current function. Using **msg.sender** is a safer approach as it cannot be manipulated by an attacker.



Unused events

Severity: Informational

Overview

Detected unused events

event TransferFeesUpdated(uint256 fee1, uint256 fee2); //@audit-issue unused event

event UpdateUniswapV2Router(address indexed newAddress, address indexed oldAddress); //@audit-issue unused event

event UpdateDividendTracker(address indexed newAddress, address indexed oldAddress); //@audit-issue unused event

Recommendation

If an event is truly unused and serves no purpose, it is recommended to simply remove it from the code.



Old version of Solidity compiler

Severity: Informational

Overview

solc frequently releases new compiler versions. Using an old version prevents access to new Solidity security checks. We also recommend avoiding complex pragma statement.

pragma solidity 0.8.17;
//@audit-issue - outdated version of solidity

Recommendation

Consider using the latest version of Solidity.



ABOUT EXPELEE

Expelee is a product-based aspirational Web3 start-up.
Coping up with numerous solutions for blockchain security and constructing a Web3 ecosystem from deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.

www.expelee.com

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- 觙 expelee

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Building the Futuristic Blockchain Ecosystem



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