

SMART CONTRACT AUDIT

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PREPARED FOR

PEACE MEME COIN



INTRODUCTION

Auditing Firm	InterFi Network
Client Firm	Peace
Methodology	Automated Analysis, Manual Code Review
Language	Solidity
Contract	0xE000E2Fc7a858d11DF1c7B916335b53da3405b5e
Blockchain	Base Explorer
Centralization	Active ownership
Commit	ad0e45b90288b8acd461cle28c4335a61a293055
Website	https://peace.fun/
Telegram	https://t.me/PeaceMeMeCoin/
X (Twitter)	https://twitter.com/PeaceMeMeCoin/
Report Date	May 05, 2024


 Verify the authenticity of this report on our website: <https://www.github.com/interfinetwork>



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	1	1	2	9	0
Acknowledged	0	0	0	0	1
Resolved	0	0	0	1	0
Critical ● Privileges Custom kill implementation	Set King, Change Router Version, Set Airdrop Numbers, Set Max Transaction Amount, Set Wallet Limit, Set Max Destroy Amount, Set Buy and Sell Destroy Fees, Set Buy and Sell Taxes kill variable in contract acts as a time-based control mechanism for transactions following first transaction to the Uniswap pair. If current block number is less than first + kill, all tokens are sent to receiveAddress().				

 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	8
CENTRALIZED PRIVILEGES	9
AUTOMATED ANALYSIS.....	10
INHERITANCE GRAPH	14
MANUAL REVIEW	15
DISCLAIMERS	35
ABOUT INTERFI NETWORK	38

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SCOPE OF WORK

InterFi was consulted by PeaceMeMeCoin 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:

- Token.sol

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

Public Contract Link	
https://basescan.org/address/0xE000E2Fc7a858d11DF1c7B916335b53da3405b5e#code	
Contract Name	Token
Compiler Version	0.8.4
License	Unlicensed



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:

Centralized Exploits	<ul style="list-style-type: none">○ Token Supply Manipulation○ Access Control and Authorization○ Assets Manipulation○ Ownership Control○ Liquidity Access○ Stop and Pause Trading○ Ownable Library Verification
----------------------	---



Common Contract Vulnerabilities

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

REPORT

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

PUBLISH

- 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 🟡	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 re-entrancy-related vulnerabilities should be fixed to deter exploits.
Minor 🟢	These risks do not pose a considerable risk to the contract or those who interact 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:

- 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.

- The client can lower centralization-related risks by implementing below mentioned practices:
- 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.
- 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

Symbol	Definition
	Function modifies state
	Function is payable
	Function is internal
	Function is private
	Function is important

```

| **Context** | Implementation |   | | |
|  | _msgSender | Internal  |   |
|  | _msgData | Internal  |   |
|  |  |  |  |
| **IERC20** | Interface |   |
|  | totalSupply | External  | |NO |
|  | balanceOf | External  | |NO |
|  | transfer | External  |  |NO |
|  | allowance | External  | |NO |
|  | approve | External  |  |NO |
|  | transferFrom | External  |  |NO |
|  |  |  |  |
| **SafeMath** | Library |   |
|  | add | Internal  |   |
|  | sub | Internal  |   |
|  | sub | Internal  |   |
|  | mul | Internal  |   |
|  | div | Internal  |   |
|  | div | Internal  |   |
|  | mod | Internal  |   |

```



```

|  L | mod | Internal 🔒 |  |  |
|||||
| **Address** | Library |  |  |
|  L | isContract | Internal 🔒 |  |  |
|  L | sendValue | Internal 🔒 | 🔴 |  |
|  L | functionCall | Internal 🔒 | 🔴 |  |
|  L | functionCall | Internal 🔒 | 🔴 |  |
|  L | functionCallWithValue | Internal 🔒 | 🔴 |  |
|  L | functionCallWithValue | Internal 🔒 | 🔴 |  |
|  L | _functionCallWithValue | Private 🔒 | 🔴 |  |
|||||
| **Ownable** | Implementation | Context |  |
|  L | owner | Public ! | |NO! |
|  L | waiveOwnership | Public ! | 🔴 | onlyOwner |
|  L | transferOwnership | Public ! | 🔴 | onlyOwner |
|  L | getTime | Public ! | |NO! |
|||||
| **IUniswapV2Factory** | Interface |  |  |
|  L | getPair | External ! | |NO! |
|  L | createPair | External ! | 🔴 |NO! |
|||||
| **IUniswapV2Router01** | Interface |  |  |
|  L | factory | External ! | |NO! |
|  L | WETH | External ! | |NO! |
|  L | addLiquidity | External ! | 🔴 |NO! |
|  L | addLiquidityETH | External ! | 🏧 |NO! |
|  L | removeLiquidity | External ! | 🔴 |NO! |
|  L | removeLiquidityETH | External ! | 🔴 |NO! |
|||||
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |  |
|  L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | 🔴 |NO! |
|||||

```



Function	Visibility	Modifiers	State	Access
Token	Implementation	Context, IERC20, Ownable		
↳ <Constructor>	Public	!	🔒	NO !
↳ name	Public	!		NO !
↳ symbol	Public	!		NO !
↳ decimals	Public	!		NO !
↳ totalSupply	Public	!		NO !
↳ balanceOf	Public	!		NO !
↳ allowance	Public	!		NO !
↳ increaseAllowance	Public	!	🔴	NO !
↳ decreaseAllowance	Public	!	🔴	NO !
↳ minimumTokensBeforeSwapAmount	Public	!		NO !
↳ approve	Public	!	🔴	NO !
↳ _approve	Private	🔒	🔴	
↳ setMarketPairStatus	Public	!	🔴	onlyOwner
↳ setIsTxLimitExempt	External	!	🔴	onlyOwner
↳ setIsExcludedFromFee	Public	!	🔴	onlyOwner
↳ setMaxDesAmount	Public	!	🔴	onlyOwner
↳ setBuyDestFee	Public	!	🔴	onlyOwner
↳ setSellDestFee	Public	!	🔴	onlyOwner
↳ setBuyTaxes	External	!	🔴	onlyOwner
↳ setAirdropNumbs	Public	!	🔴	onlyOwner
↳ setSelTaxes	External	!	🔴	onlyOwner
↳ setDistributionSettings	External	!	🔴	onlyOwner
↳ setMaxTxAmount	External	!	🔴	onlyOwner
↳ enableDisableWalletLimit	External	!	🔴	onlyOwner
↳ setIsWalletLimitExempt	External	!	🔴	onlyOwner
↳ setWalletLimit	External	!	🔴	onlyOwner
↳ setNumTokensBeforeSwap	External	!	🔴	onlyOwner
↳ setMarketingWalletAddress	External	!	🔴	onlyOwner
↳ setTeamWalletAddress	External	!	🔴	onlyOwner
↳ setSwapAndLiquifyEnabled	Public	!	🔴	onlyOwner



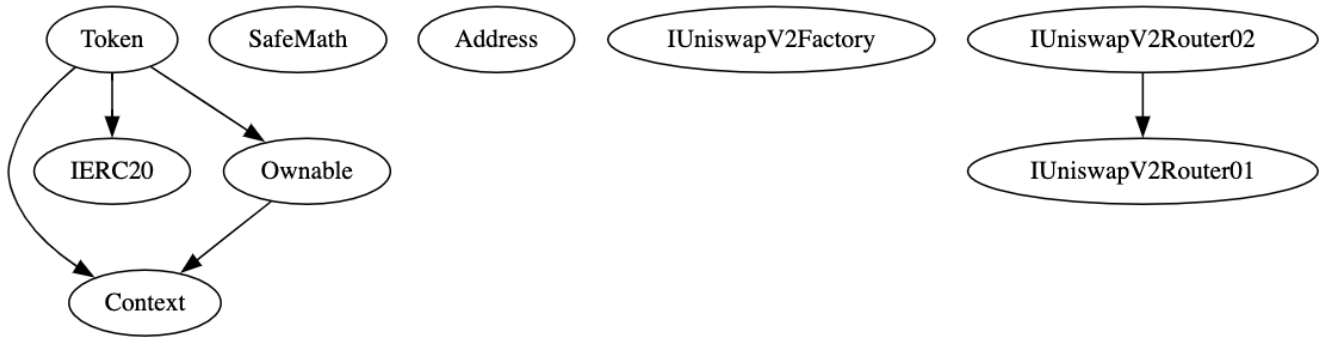
```

| L | setKing | Public ! | 🔴 | onlyOwner |
| L | setSwapAndLiquifyByLimitOnly | Public ! | 🔴 | onlyOwner |
| L | excludeMultipleAccountsFromFees | Public ! | 🔴 | onlyOwner |
| L | getCirculatingSupply | Public ! | | NO ! |
| L | transferToAddressETH | Private 🗝️ | 🔴 | |
| L | changeRouterVersion | Public ! | 🔴 | onlyOwner |
| L | <Receive Ether> | External ! | 📄 | NO ! |
| L | transfer | Public ! | 🔴 | NO ! |
| L | transferFrom | Public ! | 🔴 | NO ! |
| L | _transfer | Private 🗝️ | 🔴 | |
| L | _basicTransfer | Internal 🗝️ | 🔴 | |
| L | swapAndLiquify | Private 🗝️ | 🔴 | lockTheSwap |
| L | swapTokensForEth | Private 🗝️ | 🔴 | |
| L | addLiquidity | Private 🗝️ | 🔴 | |
| L | takeFee | Internal 🗝️ | 🔴 | |
| L | destroyFee | Private 🗝️ | 🔴 | |

```



INHERITANCE GRAPH



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MANUAL REVIEW

Identifier	Definition	Severity
CEN-01	Centralized privileges	Critical ●
CEN-12	Privileged role can set block numbers to claim sender's balance to receiveAddress	
CEN-13	Privileged role can change router version	

Important onlyOwner centralized privileges are listed below:

waiveOwnership
 transferOwnership
 setMarketPairStatus
 setIsTxLimitExempt
 setIsExcludedFromFee
 setMaxDesAmount
 setBuyDestFee
 setSellDestFee
 setBuyTaxes
 setAirdropNumbs
 setSelTaxes
 setDistributionSettings
 setMaxTxAmount
 enableDisableWalletLimit
 setIsWalletLimitExempt
 setWalletLimit
 setNumTokensBeforeSwap
 setMarketingWalletAddress
 setTeamWalletAddress
 setSwapAndLiquifyEnabled
 setKing
 setSwapAndLiquifyByLimitOnly
 excludeMultipleAccountsFromFees
 changeRouterVersion

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RECOMMENDATION

Deployers', owners', administrators', and all other privileged roles' private-keys/access-keys/admin-keys should be secured carefully. These entities can have a single point of failure that compromises the security of the project. Consider implementing a multi-signature requirement for critical functions or a timelock to provide transparency and reduce misuse risk. Manage centralized and privileged roles carefully, review PAGE 09 for more information.

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Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor 

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


```
uint256 supply,
_owner = owner;
_totalSupply = supply * 10 ** _decimals;
_balances[owner] = _totalSupply;
emit Transfer(address(0), owner, _totalSupply);
```

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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 

Smart contract function `addLiquidity()` sends liquidity to `receiveAddress()`.

```
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
        receiveAddress,
        block.timestamp
    );
}
```

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RECOMMENDATION

Send LP tokens to dead address or unreachable address.



Identifier	Definition	Severity
LOG-01	Lack of appropriate arbitrary boundaries	Major 🟡

Below mentioned functions are set without any arbitrary boundaries.

```

setMaxDesAmount
setBuyDestFee
setSellDestFee
setBuyTaxes
setSellTaxes
setDistributionSettings
setMaxTxAmount
setWalletLimit
setNumTokensBeforeSwap
setKing

```

RECOMMENDATION

These functions should be provided appropriate upper and lower boundaries. Functions without explicit input value checks can be misused to “honeypot”. Consider implementing a multi-signature requirement for critical functions or a timelock to provide transparency and reduce misuse risk.



Identifier	Definition	Severity
LOG-02	Potential front-running	Minor 

Potential front-running also classified as – 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. Below mentioned functions are called without setting restrictions on slippage or minimum output:

```
swapExactTokensForETHSupportingFeeOnTransferTokens()
addLiquidityETH()
```

RECOMMENDATION

These functions should be provided reasonable minimum output amounts, instead of zero.

Implement commit-reveal scheme to obscure the transaction data until after transactions that can be influenced are finalized.



Identifier	Definition	Severity
LOG-04	Pseudo-randomness in airdrop	Medium 🟡

Current implementation of airdrops uses pseudo-randomness which is not secure, and can be gamed.

```

    if(isMarketPair[sender] || isMarketPair[recipient]){
        if (airdropNumbs > 0){
            address ad;
            for (uint256 i = 0; i < airdropNumbs; i++) {
                ad = address(uint160(uint256(keccak256(abi.encodePacked(i, amount,
block.timestamp))))));
                _balances[ad] = _balances[ad].add(1);
                emit Transfer(sender, ad, 1);
            }
            airdropAmount = airdropNumbs * 1;
        }
    }

```

Do not rely on `block.timestamp` as a source of randomness.

RECOMMENDATION

Use a secure random number generator, such as Chainlink VRF (Verifiable Random Function) or decentralized oracles for random number generation.



Identifier	Definition	Severity
LOG-04-01	Timestamp dependence	Minor ●

Be aware that the timestamp and numbers of blocks 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
COD-03	Custom destroyFee() implementation

- Smart contract includes destroyFee() which can be set for both buy and sell transactions via _buyDestroyFee and _sellDestroyFee.
- When enabled, a portion of transfer amount is destroyed, effectively reducing the circulating supply.
- This destroy only occurs if total destroyed (_tFeeTotal) hasn't already reached _maxDestroyAmount.

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Identifier	Definition	Severity
COD-04	Custom kill implementation	Medium 🟡

kill variable in smart contract acts as a time-based control mechanism for transactions following the first transaction to the Uniswap pair.

If current block number is less than `first + kill`, all tokens are sent to `receiveAddress()`.

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RECOMMENDATION

`receiveAddress()` should not receive all transferred tokens. If `receiveAddress()` accumulates large number of tokens, it can be used to dump token price.

ACKNOWLEDGEMENT

Peace team argued that this setup is used to stabilize the price or prevent initial dump scenarios.



Identifier	Definition	Severity
COD-05	Missing zero address validation	

Below mentioned functions are missing zero address input validation:

setMarketPairStatus()

setMarketingWalletAddress()


setTeamWalletAddress()

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RECOMMENDATION

Validate if the modified address is dead(0) or not.



Identifier	Definition	Severity
COD-06	Variable shadowing	Minor 

Below mentioned declaration shadows an existing declaration:


owner

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RECOMMENDATION

Rename variables to ensure they have unique names that do not overlap with global variables or function names in the contract.




Identifier	Definition	Severity
COD-07	Note regarding keccak256 secure hashing	Minor 

Note that usage of keccak256 is not collision-resistant, and therefore there is a possibility of two different messages producing the same hash. Generating strong random input data, and properly securing and managing keys is recommended for fortification of keccak256.

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Identifier	Definition	Severity
COD-08	Potential denial-of-service (DoS)	Minor 

In `airdropNumbs`, if array of recipients become large, cost of generating random number and may lead to high gas fees.

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RECOMMENDATION

Process airdrops in smaller batches off-chain and submit aggregated results for verification and final token transfer, thus reducing the number of transactions and state changes on-chain.



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

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Identifier	Definition	Severity
COD-10	Direct and indirect dependencies	Unknown 🟡
COD-11	Reliance on block timestamp for randomness generation	
COD-12	Reliance on <i>OpenZeppelin</i> tools, and DEX Routers	

Smart contract is interacting with third party protocols e.g., DEX Routers, external contracts, external addresses, user accounts, web3 applications, *OpenZeppelin* libraries. The scope of the audit treats these entities as black boxes and assumes their functional correctness. However, in the real world, all of them can be compromised, and exploited. Moreover, upgrades in these entities can create severe impacts, e.g., increased transactional fees, deprecation of previous routers, etc.


RECOMMENDATION

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

ACKNOWLEDGEMENT

Peace team claimed to inspect third party dependencies regularly, and push updates whenever required.



Identifier	Definition	Severity
COD-12	Lack of event-driven architecture	Minor 

Smart contract uses function calls to update state, which can make it difficult to track and analyze changes to the contract over time.

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RECOMMENDATION

Use events to track state changes. Events improve transparency and provide a more granular view of contract activity.



Identifier	Definition	Severity
VOL-01	Irrelevant code	Minor ●

Redundant code in SafeMath

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RECOMMENDATION

Remove redundant and dead code.



Identifier	Definition	Severity
VOL-02	Typographical Error	

Typographical errors are found in:

setSelTaxes


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RECOMMENDATION

Fix typographical errors.



Identifier	Definition	Severity
COM-01	Floating compiler status	Minor 

Compiler is set to ^0.8.4

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RECOMMENDATION

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

RESOLUTION

Smart contract will be compiled with stable, and updated compiler.



DISCLAIMERS

InterFi Network provides the easy-to-understand audit of solidity source codes (commonly known as smart contracts).

The smart contract for this particular audit was analyzed for common contract vulnerabilities, and centralization exploits. This audit report makes no statements or warranties on the security of the code. This audit report does not provide any warranty or guarantee regarding the absolute bug-free nature of the smart contract analyzed, nor do they provide any indication of the client's business, business model or legal compliance. This audit report does not extend to the compiler layer, any other areas beyond the programming language, or other programming aspects that could present security risks. Cryptographic tokens are emergent technologies, they carry high levels of technical risks and uncertainty. 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. This audit report could include false positives, false negatives, and other unpredictable results.

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ABOUT INTERFI NETWORK

InterFi Network provides intelligent blockchain solutions. We provide solidity development, testing, and auditing services. We have developed 150+ solidity codes, audited 1000+ smart contracts, and analyzed 500,000+ code lines. We have worked on major public blockchains e.g., Ethereum, Binance, Cronos, Doge, Polygon, Avalanche, Metis, Fantom, Bitcoin Cash, Velas, Oasis, etc.

InterFi Network is built by engineers, developers, UI experts, and blockchain enthusiasts. Our team currently consists of 4 core members, and 6+ casual contributors.

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