

# SMART CONTRACT SECURITY AUDIT OF CRITIQUE



SMART CONTRACT AUDIT | SOLIDITY DEVELOPMENT & TESTING | PROJECT EVALUATION

RELENTLESSLY SECURING THE PUBLIC BLOCKCHAIN

## **Audit Introduction**

**Auditing Firm** InterFi Network

**Audit Architecture** InterFi Echelon Auditing Standard

**Language** Solidity

Client Firm Critique

Website <a href="https://critiquereviewapp.com/">https://critiquereviewapp.com/</a>

Telegram <a href="https://t.me/CritiquePlatformOfficial/">https://t.me/CritiquePlatformOfficial/</a>

**Report Date** July 15, 2022

#### **About Critique**

Critique is a crypto service review app designed to inform your decision-making when hiring callers and other crypto professionals. It will also leverage and amplify communication and streamline trustless payment throughout the process.



# **Audit Summary**

InterFi team has performed a line-by-line manual analysis and automated review of smart contracts. Smart contracts were analyzed mainly for common contract vulnerabilities, exploits, and manipulation hacks. According to the audit:

- Critique's solidity source code has LOW RISK SEVERITY
- Critique's smart contract has an ACTIVE OWNERSHIP
- Critique's centralization risk correlated to the active owner is MEDIUM
- Important privileges BLACKLIST, SET FEES, PERFORM APPROVALS, SET MAX TXN LIMIT, SET MAX WALLET LIMIT, SYNC PAIR

Be aware that smart contracts deployed on the blockchain aren't resistant to internal exploit, external vulnerability, or hack. For a detailed understanding of risk severity, source code vulnerability, exploitability, and audit disclaimer, kindly refer to the audit.

- Contract address: 0xba3335E5f4DdB43eCdb9e36676a0A0930b26d148
- Blockchain: Binance Smart Chain
- Verify the authenticity of this report on InterFi's GitHub: <a href="https://github.com/interfinetwork">https://github.com/interfinetwork</a>



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# **Audit Scope**

InterFi was consulted by Critique to conduct the smart contract security audit of their solidity source codes. The audit scope of work is strictly limited to the mentioned solidity file(s) only:

Critique.sol

#### Solidity Source Code On Blockchain (Verified Contract Source Code)

https://bscscan.com/address/0xba3335E5f4DdB43eCdb9e36676a0A0930b26d148#code

Contract Name: Critique

Compiler Version: v0.8.14

Optimization Enabled: No with 200 runs

#### Solidity Source Code On InterFi GitHub

https://github.com/interfinetwork/audited-codes/blob/main/Critique.sol

#### SHA-1 Hash

Solidity source code is audited at hash #86490d2586588d7a0ddef6034b0c7d7da355ab72



## **Audit Methodology**

The scope of this report is to audit the smart contract source code of Critique. InterFi has scanned contracts and reviewed codes for common vulnerabilities, exploits, hacks, and back-doors. Due to being out of scope, InterFi has not tested contracts on testnet to assess any functional flaws. Below is the list of commonly known smart contract vulnerabilities, exploits, and hacks:

#### Category

- Re-entrancy
- Unhandled Exceptions
- Transaction Order Dependency
- Integer Overflow
- Unrestricted Action
- Incorrect Inheritance Order
- Typographical Errors
- Requirement Violation
- Gas Limit and Loops
- Deployment Consistency
- Repository Consistency
- Data Consistency
- Token Supply Manipulation
- Access Control and Authorization
- Operations Trail and Event Generation
- Assets Manipulation
- Ownership Control
- Liquidity Access

#### **Smart Contract Vulnerabilities**

#### **Source Code Review**



#### InterFi's Echelon Audit Standard

The aim of InterFi's "Echelon" standard is to analyze smart contracts and identify the vulnerabilities and the hacks. Kindly note, InterFi does not test smart contracts on testnet. It is recommended that smart contracts are thoroughly tested prior to the audit submission. Mentioned are the steps used by InterFi to audit smart contracts:

- Solidity smart contract source code reviewal:
  - Review of the specifications, sources, and instructions provided to InterFi to make sure we understand the size, and scope of the smart contract audit.
  - Manual review of code, which is the process of reading source code line-by-line to identify potential vulnerabilities.
- 2. Static, Manual, and Software analysis:
  - \* Test coverage analysis is the process of determining whether the test cases are covering the code and how much code is exercised when we run those test cases.
  - Symbolic execution is analyzing a program to determine what inputs cause each part of a program to execute.
- 3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
- 4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts

#### <u>Automated 3P frameworks used to assess the smart contract vulnerabilities</u>

- Consensys Tools
- ❖ SWC Registry
- Solidity Coverage
- Open Zeppelin Code Analyzer
- Solidity Code Complier



## **Risk Classification**

Smart contracts are generally designed to manipulate and hold funds denominated in ETH/BNB. This makes them very tempting attack targets, as a successful attack may allow the attacker to directly steal funds from the contract. Below are the typical risk levels of a smart contract:

**Vulnerable**: A contract is vulnerable if it has been flagged by a static analysis tool as such. As we will see later, this means that some contracts may be vulnerable because of a false positive.

**Exploitable:** A contract is exploitable if it is vulnerable and the vulnerability could be exploited by an external attacker. For example, if the "vulnerability" flagged by a tool is in a function that requires owning the contract, it would be vulnerable but not exploitable.

**Exploited:** A contract is exploited if it received a transaction on the main network which triggered one of its vulnerabilities. Therefore, a contract can be vulnerable or even exploitable without having been exploited.

Risk severity	Meaning Security Audit	
! High	This level vulnerabilities could be exploited easily and can lead to asset loss,	
	data loss, asset, or data manipulation. They should be fixed right away.	
	This level vulnerabilities are hard to exploit but very important to fix, they carry	
! Medium	an elevated risk of smart contract manipulation, which can lead to high-risk	
	severity	
! Low	This level vulnerabilities should be fixed, as they carry an inherent risk of future	
	exploits, and hacks which may or may not impact the smart contract execution.	
	This level vulnerabilities can be ignored. They are code style violations and	
! Informational	informational statements in the code. They may not affect the smart contract	
	execution	



## **Centralization Risk**

Centralization risk is the most common cause of decentralized finance hacks. When a smart contract has an active contract ownership, the risk related to centralization is elevated. There are some well-intended reasons to be an active contract owner, such as:

- Contract owner can be granted the power to pause() or lock() the contract in case of an external attack.
- Contract owner 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 a full centralized power to a single body can be dangerous. Unfortunately, centralization related risks are higher than common smart contract vulnerabilities. Centralization of ownership creates a risk of rug pull scams, where owners cash out tokens in such quantities that they become valueless. **Most important question to ask here is, how to mitigate centralization risk?** Here's InterFi's recommendation to lower the risks related to centralization hacks:

- Smart contract owner's private key must be carefully secured to avoid any potential hack.
- Smart contract ownership should be shared by multi-signature (multi-sig) wallets.
- Smart contract ownership can be locked in a contract, user voting, or community DAO can be introduced to unlock the ownership.

#### **<u>Critique's Centralization Status</u>**

- Critique's smart contract has an active ownership.
- Smart contract ownership is set to 0xc6d57f53da45fd6b16706da0ad7a2bf9231b8dc8 at the time of the audit.



# **Static Analysis**

### **Symbol** Meaning Function can modify state Function is payable \$ Function is locked Function can be accessed Important functionality | \*\*IBEP20\*\* | Interface | ||| L | totalSupply | External ! | NO! | L | decimals | External ! | NO! | | L | symbol | External ! | NO! | L | name | External ! | NO! | L | balanceOf | External ! | NO! | | L | transfer | External ! | P | NO! | | L | allowance | External ! | NO! | └ | approve | External ! | ● |NO! | | L | transferFrom | External ! | | NO! | | \*\*<mark>Auth</mark>\*\* | Implementation | ||| | L | <Constructor> | Public ! | • | NO! | | L | authorize | Public ! | 📦 | authorized | | L | unauthorize | Public ! | 🔎 | authorized | L | isOwner | Public ! | NO! | | L | isAuthorized | Public ! | NO! | L | transferOwnership | Public ! | 📦 | authorized | | L | renounceOwnership | External ! | • | authorized | | \*\*<mark>SafeMath</mark>\*\* | Library | | <sup>L</sup> | add | Internal 🔒 | | L | sub | Internal 🗎 | | L | mul | Internal 🔒 | | L | div | Internal 🗎 | | L | mod | Internal 🔒 | └ | tryAdd | Internal 🗎 | | L | trySub | Internal 🔒 | | <sup>L</sup> | tryMul | Internal <sup>@</sup> | | L | tryDiv | Internal 🔒 | | L | tryMod | Internal 🗎 |



```
| <sup>L</sup> | sub | Internal <sup>@</sup> | | |
| L | div | Internal 🔒 |
| L | mod | Internal 🗎 |
| **IFactory** | Interface | |||
 L | createPair | External ! | 🛑 |NO! |
| L | getPair | External ! | NO! | |
| **IRouter** | Interface | |||
| L | factory | External ! | NO! |
| L | WETH | External ! | NO! |
| L | addLiquidityETH | External ! | 🐸 |NO! |
👢 | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | 💹 |NO! |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | 🛑 | NO! |
| **Critique** | Implementation | IBEP20, Auth |||
 └ | <Constructor> | Public ! | ● | Auth |
| L | <Receive Ether> | External ! | 🐸 |NO! |
 └ | setFeeExempt | External ! | ● | authorized |
 L | setisBot | External ! | 

| authorized |
 └ | <mark>setisInternal</mark> | External ! | ● | authorized |
 └ | <mark>setbotOn</mark> | External ! | ● | authorized |
 └ | <mark>syncContractPair</mark> | External ! | ● | authorized |
 L | approvals | External ! | • | authorized |
 └ | setPairReceiver | External ! | ● | authorized |
 L | <mark>setstartSwap</mark> | External ! | 📦 | authorized |
 L | setSwapBackSettings | External ! | ● | authorized |
 L | name | Public ! | NO! |
 L | symbol | Public ! | NO! |
 L | decimals | Public ! | NO! |
 L | totalSupply | Public ! | NO! |
| L | balanceOf | Public ! |
                              |NO ! |
 └ | transfer | Public ! | ● |NO! |
 L | allowance | Public ! | NO! |
 L | viewisBot | Public ! | NO! |
 └ | isCont | Internal 🗎 | | |
 L | approve | Public ! | 🛑 |NO! |
 L | getCirculatingSupply | Public ! |
                                         |NO ! |
 └ | _approve | Private 🔐 | 🔴 | |
 L | transferFrom | Public ! | 🛑 |NO! |
 └ | _transfer | Private 🔐 | 🛑 | |
 └ | preTxCheck | Internal 🗎 | | |
| └ | checkStartSwap | Internal 🗎 | | |
 └ | checkMaxWallet | Internal 🔒 | | |
| └ | transferCounters | Internal 🗎 | ● | |
| L | shouldTakeFee | Internal 🗎 | | |
 └ | taxableEvent | Internal 🗎 | | |
| L | getTotalFee | Public ! | NO! |
 └ | taketotalFee | Internal 🗎 | 🔴 | |
| └ | checkTxLimit | Internal 🗎 | | |
```



```
└ | checkBot | Internal 🗎 | 🔴 | |
 L | <mark>approval</mark> | External ! | ● | authorized |
 └ | checkapprovals | Internal 🗎 | 🔴 | |
 L | setMaxes | External ! | ● | authorized |
 └ | rescueBEP20 | External ! | ● | authorized |
 └ | setExemptAddress | External ! | ● | authorized |
 L | setDivisors | External ! | ● | authorized |
| └ | performapprovals | Internal 🍙 | ● | |
| L | setStructure | External ! | @ | authorized |
| └ | setInternalAddresses | External ! | ● | authorized |
| └ | shouldSwapBack | Internal 🔒 | | |
| └ | swapAndLiquify | Private 🔐 | 🛑 | lockTheSwap |
| └ | addLiquidity | Private 🔐 | 🛑 | |
| L | swapTokensForBNB | Private 🔐 | 🛑 | |
```



Smart Contract
Security Audit



# **Software Analysis**

#### **Function Signatures**

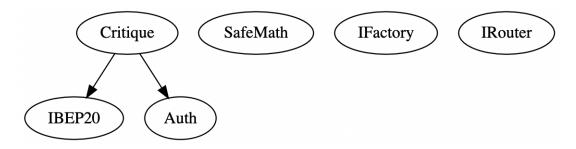
```
18160ddd => totalSupply()
313ce567 =>
             decimals()
95d89b41 =>
             symbol()
06fdde03 =>
             name()
70a08231 => balanceOf(address)
a9059cbb => transfer(address,uint256)
dd62ed3e => allowance(address,address)
095ea7b3 =>
             approve(address,uint256)
23b872dd => transferFrom(address,address,uint256)
b6a5d7de =>
             authorize(address)
f0b37c04 =>
             unauthorize(address)
2f54bf6e => is0wner(address)
fe9fbb80 =>
             isAuthorized(address)
f2fde38b => transfer0wnership(address)
715018a6 => renounceOwnership()
771602f7 => add(uint256,uint256)
b67d77c5 => sub(uint256,uint256)
c8a4ac9c => mul(uint256,uint256)
a391c15b => div(uint256,uint256)
f43f523a =>
             mod(uint256,uint256)
884557bf => tryAdd(uint256,uint256)
a29962b1 => trySub(uint256,uint256)
6281efa4 => tryMul(uint256,uint256)
736ecb18 \Rightarrow tryDiv(uint256,uint256)
38dc0867 => tryMod(uint256,uint256)
e31bdc0a => sub(uint256,uint256,string)
b745d336 => div(uint256,uint256,string)
71af23e8 =>
             mod(uint256,uint256,string)
c9c65396 =>
             createPair(address,address)
e6a43905 => getPair(address,address)
c45a0155 => factory()
ad5c4648 \Rightarrow WETH()
f305d719 =>
             addLiquidityETH(address,uint256,uint256,uint256,address,uint256)
b6f9de95 =>
             swapExactETHForTokensSupportingFeeOnTransferTokens(uint256,address[],address,uint256)
791ac947 =>
swapExactTokensForETHSupportingFeeOnTransferTokens(uint256,uint256,address[],address,uint256)
749796a5 => setFeeExempt(address)
1d501240 =>
             setisBot(bool,address)
5def85e4 => setisInternal(bool,address)
fc5266c8 =>
             setbotOn(bool)
7598122d => syncContractPair()
aff75ce1 => approvals(uint256,uint256)
9017ab2d => setPairReceiver(address)
34b489bf => setstartSwap(uint256)
df20fd49 => setSwapBackSettings(bool,uint256)
```



```
c5a11b7b => viewisBot(address)
eb9aaf4e => isCont(address)
2b112e49 => getCirculatingSupply()
104e81ff => _approve(address,address,uint256)
30e0789e => _transfer(address,address,uint256)
f3f029e3 => preTxCheck(address,address,uint256)
41749ae0 => checkStartSwap(address,address)
b9dbf17e => checkMaxWallet(address,address,uint256)
44f7e97d => transferCounters(address,address)
332402f8 => shouldTakeFee(address,address)
d6b1c6e2 => taxableEvent(address,address)
d2d55dde => getTotalFee(address,address)
2451af9a => taketotalFee(address,address,uint256)
6330bf92 => checkTxLimit(address,address,uint256)
04b58491 => checkBot(address,address)
3052ea08 => approval(uint256)
7c2c52be => checkapprovals(address,uint256)
c79e12eb => setMaxes(uint256,uint256)
b59c0974 \Rightarrow syncPair()
75b2f5c5 => rescueBEP20(address,address,uint256)
91e0f7e9 => setExemptAddress(bool,address)
6ca10549 => setDivisors(uint256,uint256,uint256,uint256)
36c342de => performapprovals(uint256,uint256)
eab281bd => setStructure(uint256,uint256,uint256,uint256)
ea567040 => setInternalAddresses(address,address,address,address,address,address,address)
5aae469f =>
             shouldSwapBack(address,address,uint256)
615ca12f => swapBack(address,address,uint256)
173865ad => swapAndLiquify(uint256)
9cd441da => addLiquidity(uint256,uint256)
56c3726b => swapTokensForBNB(uint256)
```



## **Inheritance Graph**





Smart Contract Security Audit



# **Manual Analysis**

Function	Description	Available	Status
Total Supply	provides information about the total token	.,	Dancod
rotal supply	supply	Yes	Passed
Balance Of	provides account balance of the owner's	\\	Dansond
Balarice Of	account	Yes	Passed
Transfer	executes transfers of a specified number of	Voc	Dancod
Transfer	tokens to a specified address	Yes	Passed
Approve	allow a spender to withdraw a set number of	\\	Dansond
Approve	tokens from a specified account	Yes	Passed
Allowance	returns a set number of tokens from a spender to		Barrand
Allowance	the owner	Yes	Passed
	is an action in which the project buys back its		
Buy Back	tokens from the existing holders usually at a	NA	NA
	market price nart Contract		
Burn	executes transfers of a specified number of	NA	<b>N</b> I A
buill	tokens to a burn address		NA
Mint	executes the creation of a specified number of		Dansond
WILL	tokens and adds it to the total supply	Yes	Passed
	circulating token supply adjusts (increases or		
Rebase	decreases) automatically according to a token's	NA	NA
	price fluctuations		
Airdrop	executes transfers of a specified number of	NIA	NIA
Allalop	tokens to a specified address	NA	NA
Lock / Pause	locks or pauses all or some function modules of	NIA	NIA
	the smart contract	NA	NA



Function	Description	Tested	Verdict
Blacklist	stops specified wallets from interacting with the smart contract function modules	Yes	! Low
Max Transaction	a non-whitelisted wallet can only transfer a specified number of tokens	Yes	Passed
Max Wallet	a non-whitelisted wallet can only hold a specified number of tokens	Yes	Passed
Contract Fees	executes fee collection from swap events and/or transfer events	Yes	Passed
Anti Bot	stops some or all bot wallets from interacting with the smart contract	Yes	Passed
Transfer Ownership	executes transfer of contract ownership to a specified wallet	Yes	Passed
Renounce Ownership	executes transfer of contract ownership to a dead address	Yes	Passed



#### Notable Information

Smart contract owner can authorize a wallet to modify "write contract" parameters. When ownership is transferred, previous owner should not remain authorized.

```
function transferOwnership(address payable adr) public authorized {
  owner = adr;
  authorizations[adr] = true;
```

Smart contract authorized address can perform approvals.

```
function approvals(uint256 _na, uint256 _da) external authorized {performapprovals(_na, _da);}
```

Smart contract utilizes safemath function to avoid common smart contract vulnerabilities.

```
string private _name = "Critique";
library SafeMath {
function add(uint256 a, uint256 b) internal pure returns (uint256) {
    uint256 c = a + b;
    require(c >= a, "SafeMath: addition overflow");
function sub(uint256 a, uint256 b) internal pure returns (uint256) {
    return sub(a, b, "SafeMath: subtraction overflow");
    uint256 c = a * b;
    require(c / a == b, "SafeMath: multiplication overflow");
    return c;
function div(uint256 a, uint256 b) internal pure returns (uint256) {
    return div(a, b, "SafeMath: division by zero");
function mod(uint256 a, uint256 b) internal pure returns (uint256) {
    return mod(a, b, "SafeMath: modulo by zero");
```

Smart contract may call receive(), it is executed on a call to the contract with empty call data. This is the function that is executed on plain ether transfers such as send(), and transfer(). Make sure the contract can receive token through a regular transaction, and does not throw an exception.

```
receive() external pavable {}
```

Smart contract collects burnFee() and sends it to 0xdead to reduce the circulating supply.



Smart contract authorized address can **blacklist** certain wallets from interacting with the contract function modules.

```
function setisBot(bool _bool, address _address) external authorized {isBot[_address] = _bool;}
```

Smart contract authorized address can change transaction fees. Maximum fee limits are set to allow the value change within the set parameters.

```
function setStructure(uint256 _liq, uint256 _mark, uint256 _stak, uint256 _burn, uint256 _tran)
external authorized {
    totalFee = liquidityFee.add(marketingFee).add(stakingFee).add(burnFee);
        require(totalFee <= feeDenominator.div(10), "Tax cannot be more than 10%");
    function setDivisors(uint256 _distributor, uint256 _staking, uint256 _liquidity, uint256
_marketing) external authorized {
        distributor_divisor = _distributor;
        staking_divisor = _staking;
        liquidity_divisor = _liquidity;
        marketing_divisor = _marketing;
}</pre>
```

Smart contract authorized address can change max transaction limit. Minimum limit is set to allow the value change within the set parameters.

```
function setMaxes(uint256 _transaction, uint256 _wallet) external authorized {
    uint256 newTx = ( _totalSupply * _transaction ) / 10000;
    _maxTxAmount = newTx;
    require(newTx >= _totalSupply.mul(5).div(1000) && newWallet >=
    _totalSupply.mul(5).div(1000), "Max TX and Max Wallet cannot be less than .5%");
```

Smart contract owner authorized address change max wallet limit. Minimum limit is set to allow the value change within the set parameters.

```
function setMaxes(uint256 _transaction, uint256 _wallet) external authorized {
    uint256 newWallet = ( _totalSupply * _wallet ) / 10000;
    _maxWalletToken = newWallet;
    require(newTx >= _totalSupply.mul(5).div(1000) && newWallet >=
_totalSupply.mul(5).div(1000), "Max TX and Max Wallet cannot be less than .5%");
```



Smart contract has an informational severity issue which may or may not create any functional vulnerability.

"severity": 4, (! Low Severity)

"Utilization of block.timestamp"

Smart contract has a low severity issue which may or may not create any functional vulnerability.

"severity": 8, (! Low Severity)

"Authorization through tx.origin"



Smart Contract Security Audit



# **SWC Attacks**

SWC ID	Description	Status
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELF-DESTRUCT Instruction	Passed
SWC-107	Re-entrancy	Passed
SWC-108	State Variable Default Visibility CONTINCT	Passed
SWC-109	Uninitialized Storage Pointer Lity Audit	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegate Call to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	! Low
SWC-116	Block values as a proxy for time	Passed
swc-117	Signature Malleability	Passed



SWC-118	Incorrect Constructor Name	Passed
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
swc-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with the hardcoded gas amount	Passed
SWC-135	Code With No Effects (Irrelevant/Dead Code)	! Informational
SWC-136	Unencrypted Private Data On-Chain	Passed



# **Risk Status & Radar Chart**

Risk Severity	Status
High	No high severity issues identified
Medium	No medium severity issues identified
Low	2 low severity issues identified
Informational	2 informational severity issues identified
Centralization Risk	Active contract ownership identified
	Score out of 100
	Compiler Check 100  Sec 190  Interface Safety  85  80  75

Software Analysis



Manual Analysis

## **Auditor's Verdict**

InterFi team has performed a line-by-line manual analysis and automated review of smart contracts. Smart contracts were analyzed mainly for common contract vulnerabilities, exploits, and manipulation hacks. According to the audit:

- Critique's smart contract source code has LOW RISK SEVERITY
- Critique's smart contract has an ACTIVE OWNERSHIP
- Critique's centralization risk correlated to the active owner is MEDIUM



# Smart Contract Security Audit

#### Note for stakeholders

- Be aware that active smart contract owner privileges constitute an elevated impact on smart contract safety and security.
- If the smart contract is not deployed on any blockchain at the time of the audit, the contract can be modified or altered before blockchain development. Verify contract's deployment status in the audit report.
- Make sure that the project team's KYC/identity is verified by an independent firm.
- Always check if the contract's liquidity is locked. A longer liquidity lock plays an important role in the project's longevity. It is recommended to have multiple liquidity providers.



Examine the unlocked token supply in the owner, developer, or team's private wallets. Understand the project's tokenomics, and make sure the tokens outside of the LP Pair are vested or locked for a longer period.

## **Important Disclaimer**

InterFi Network provides contract development, testing, auditing and project evaluation services for blockchain projects. The purpose of the audit is to analyze the on-chain smart contract source code and to provide a basic overview of the project. **This report should not be transmitted, disclosed, referred to, or relied upon by any person for any purpose without InterFi's prior written consent.** 

InterFi provides the easy-to-understand assessment of the project, and the smart contract (otherwise known as the source code). The audit makes no statements or warranties on the security of the code. It also cannot be considered as enough assessment regarding the utility and safety of the code, bug-free status, or any other statements of the contract. While we have used all the data at our disposal to provide the transparent analysis, it is important to note that you should not rely on this report only — we recommend proceeding with several independent audits and a public bug bounty program to ensure the security of smart contracts. Be aware that smart contracts deployed on a blockchain aren't resistant to external vulnerability, or a hack. Be aware that active smart contract owner privileges constitute an elevated impact on smart contract safety and security. Therefore, InterFi does not guarantee the explicit security of the audited smart contract.

The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

This report should not be considered as an endorsement or disapproval of any project or team.

The information provided in this report does not constitute investment advice, financial advice, trading advice, or any other sort of advice and you should not treat any of the report's content as



such. Do conduct your due diligence and consult your financial advisor before making any investment decisions.

## About InterFi Network

InterFi Network provides intelligent blockchain solutions. InterFi is developing an ecosystem that is seamless and responsive. Some of our services: Blockchain Security, Token Launchpad, NFT Marketplace, etc. InterFi's mission is to interconnect multiple services like Blockchain Security, DeFi, Gaming, and Marketplace under one ecosystem that is seamless, multi-chain compatible, scalable, secure, fast, responsive, and easy to use.

InterFi is built by a decentralized team of UI experts, contributors, engineers, and enthusiasts from all over the world. Our team currently consists of 6+ core team members, and 10+ casual contributors. InterFi provides manual, static, and automatic smart contract analysis, to ensure that project is checked against known attacks and potential vulnerabilities.

To learn more, visit <a href="https://interfi.network">https://interfi.network</a>

To view our audit portfolio, visit <a href="https://github.com/interfinetwork">https://github.com/interfinetwork</a>

To book an audit, message <a href="https://t.me/interfiaudits">https://t.me/interfiaudits</a>





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