



# SMART CONTRACT AUDIT

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PREPARED FOR

**THE LATTICE**



# INTRODUCTION

Auditing Firm	InterFi Network
Client Firm	The Lattice
Methodology	Automated Analysis, Manual Code Review
Language	Solidity
Contract	0xc8809F6C743179e794c4D9B95Ca862aA24976e74
Blockchain	Ethereum Chain
Centralization	Active ownership
Commit	d5f67e0745cf636bb671bc65a0cb1bfe6d712427
Website	<a href="https://thelattice.io/">https://thelattice.io/</a>
Twitter	<a href="https://twitter.com/the_lattice/">https://twitter.com/the_lattice/</a>
Report Date	January 18, 2023

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## 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 <span style="color: red;">●</span>	Major <span style="color: orange;">●</span>	Medium <span style="color: yellow;">●</span>	Minor <span style="color: green;">●</span>	Unknown <span style="color: brown;">●</span>
Open	0	1	1	2	0
Acknowledged	0	0	0	3	0
Resolved	0	0	0	0	0
Noteworthy Privileges	Bulk Blacklist, Set Buy and Sell Lock, Set Transaction Limits, Set Buy and Sell Fees, Change Pair and Router				

 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.



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## SCOPE OF WORK

InterFi was consulted by The Lattice 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:

- Lattice.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	
<a href="https://etherscan.io/token/0xc8809f6c743179e794c4d9b95ca862aa24976e74#code">https://etherscan.io/token/0xc8809f6c743179e794c4d9b95ca862aa24976e74#code</a>	
Contract Name	Lattice
Compiler Version	0.8.17
License	GNU GPLv3



# 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"><li>○ Token Supply Manipulation</li><li>○ Access Control and Authorization</li><li>○ Assets Manipulation</li><li>○ Ownership Control</li><li>○ Liquidity Access</li><li>○ Stop and Pause Trading</li><li>○ Ownable Library Verification</li></ul>
----------------------	---



## 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

```

| **IERC20** | Interface | |||
|  L | totalSupply | External ! | |NO ! |
|  L | balanceOf | External ! | |NO ! |
|  L | transfer | External ! |  |NO ! |
|  L | 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 ! |
|||||
| **Context** | Implementation | |||
|  L | _msgSender | Internal  | | |
|  L | _msgData | Internal  | | |
|||||
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
|  L | <Constructor> | Public ! |  |NO ! |
|  L | name | Public ! | |NO ! |
|  L | symbol | Public ! | |NO ! |

```



	└	decimals		Public	!		NO!	
	└	totalSupply		Public	!		NO!	
	└	balanceOf		Public	!		NO!	
	└	transfer		Public	!		NO!	
	└	allowance		Public	!		NO!	
	└	approve		Public	!		NO!	
	└	transferFrom		Public	!		NO!	
	└	increaseAllowance		Public	!		NO!	
	└	decreaseAllowance		Public	!		NO!	
	└	_transfer		Internal	🔒			
	└	_mint		Internal	🔒			
	└	_burn		Internal	🔒			
	└	_approve		Internal	🔒			
	└	_spendAllowance		Internal	🔒			
	└	_beforeTokenTransfer		Internal	🔒			
	└	_afterTokenTransfer		Internal	🔒			
	**Ownable**			Implementation		Context		
	└	<Constructor>		Public	!		NO!	
	└	owner		Public	!		NO!	
	└	_checkOwner		Internal	🔒			
	└	renounceOwnership		Public	!		onlyOwner	
	└	transferOwnership		Public	!		onlyOwner	
	└	_transferOwnership		Internal	🔒			
	**SafeMath**			Library				
	└	tryAdd		Internal	🔒			
	└	trySub		Internal	🔒			
	└	tryMul		Internal	🔒			
	└	tryDiv		Internal	🔒			
	└	tryMod		Internal	🔒			



```

| L | add | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | mul | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L | mod | Internal 🔒 | | |
| L | sub | Internal 🔒 | | |
| L | div | Internal 🔒 | | |
| L | mod | Internal 🔒 | | |
|||||
| **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 ! |
| L | removeLiquidityWithPermit | External ! | 🚫 |NO ! |
| L | removeLiquidityETHWithPermit | External ! | 🚫 |NO ! |
| L | swapExactTokensForTokens | External ! | 🚫 |NO ! |
| L | swapTokensForExactTokens | External ! | 🚫 |NO ! |
| L | swapExactETHForTokens | External ! | 🚫 |NO ! |
| L | swapTokensForExactETH | External ! | 🚫 |NO ! |
| L | swapExactTokensForETH | External ! | 🚫 |NO ! |
| L | swapETHForExactTokens | External ! | 🚫 |NO ! |
| L | quote | External ! | |NO ! |
| L | getAmountOut | External ! | |NO ! |
| L | getAmountIn | External ! | |NO ! |
| L | getAmountsOut | External ! | |NO ! |
| L | getAmountsIn | External ! | |NO ! |
|||||
| **IUniswapV2Router02** | Interface | IUniswapV2Router01 |||

```



```

| L | removeLiquidityETHSupportingFeeOnTransferTokens | External ! | ● | NO ! |
| L | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External ! | ● | NO ! |
| L | swapExactTokensForTokensSupportingFeeOnTransferTokens | External ! | ● | NO ! |
| L | swapExactETHForTokensSupportingFeeOnTransferTokens | External ! | ● | NO ! |
| L | swapExactTokensForETHSupportingFeeOnTransferTokens | External ! | ● | NO ! |
|||||

```

```

| **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 ! |
| L | setFeeToSetter | External ! | ● | NO ! |
|||||

```

```

| **Lattice** | Implementation | ERC20, Ownable |||
| L | <Constructor> | Public ! | ● | ERC20 |
| L | updateDevelopmentWallet | External ! | ● | onlyOwner |
| L | updateMarketingWallet | External ! | ● | onlyOwner |
| L | updateBuyFee | External ! | ● | onlyOwner |
| L | updateSellFee | External ! | ● | onlyOwner |
| L | updateBuyLockTime | External ! | ● | onlyOwner |
| L | updateSellLockTime | External ! | ● | onlyOwner |
| L | updateLimitTime | External ! | ● | onlyOwner |
| L | updateBuyLimitPercentage | External ! | ● | onlyOwner |
| L | updateSellLimitPercentage | External ! | ● | onlyOwner |
| L | updateUniswapV2Router | External ! | ● | onlyOwner |
| L | isBlacklisted | External ! | | NO ! |
| L | blackListAddress | External ! | ● | onlyOwner |
| L | blackListMultipleAddresses | External ! | ● | onlyOwner |

```



```

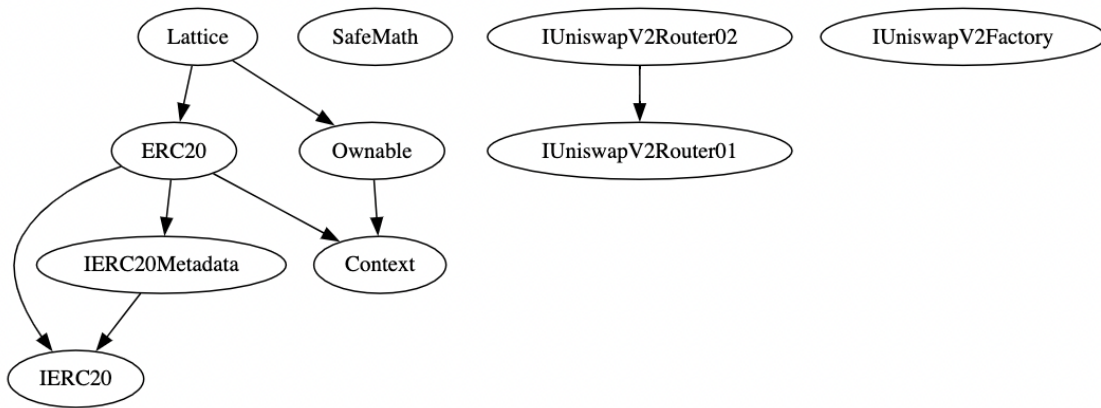
| L | isExcludedFromFees | External ! | NO ! | |
| L | excludeFromFees | Public ! | ● | onlyOwner |
| L | excludeMultipleAccountsFromFees | External ! | ● | onlyOwner |
| L | isExcludedFromLimit | External ! | NO ! |
| L | excludeFromLimit | Public ! | ● | onlyOwner |
| L | excludeMultipleAccountsFromLimit | External ! | ● | onlyOwner |
| L | setAutomatedMarketMakerPair | Public ! | ● | onlyOwner |
| L | _isBuy | Internal 🔒 | | |
| L | _isSell | Internal 🔒 | | |
| L | _handleTimeLock | Internal 🔒 | ● | |
| L | _handleBuyLimit | Internal 🔒 | ● | |
| L | _handleSellLimit | Internal 🔒 | ● | |
| L | _transfer | Internal 🔒 | ● | |

```

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## INHERITANCE GRAPH



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## MANUAL REVIEW

Identifier	Definition	Severity
CEN-01	Centralization privileges of The Lattice	Major 🟡
CEN-03	Privileged role performing blacklist	
CEN-05	Privileged role locking buy and sell for a time period	

Centralized privileges are listed below:

```

transferOwnership()
updateDevelopmentWallet()
updateMarketingWallet()
updateBuyFee()
updateSellFee()
updateBuyLockTime()
updateSellLockTime()
updateLimitTime()
updateBuyLimitPercentage()
updateSellLimitPercentage()
updateUniswapV2Router()
blackListMultipleAddresses()
excludeFromFees()
excludeMultipleAccountsFromFees()
excludeFromLimit()
excludeMultipleAccountsFromLimit()
setAutomatedMarketMakerPair()

```

## RECOMMENDATION

Deployer and/or contract owner private keys must be secured carefully. Please refer to PAGE-09 CENTRALIZED PRIVILEGES for a detailed understanding. Remove blacklist – as it can intentionally stop addresses from accessing smart contract function modules.





Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor 

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

```
address newOwner = 0x3d27d7106f7202ecfF115834EBa72C034E912703;  
_mint(newOwner, 25_000_000 * (10 ** 18));
```

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## RECOMMENDATION

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



Identifier	Definition	Severity
LOG-01	Lack of arbitrary limits	Medium 🟡

Below mentioned functions are set without any arbitrary limits.

```

updateBuyFee()
updateSellFee()
updateBuyLockTime()
updateSellLockTime()
updateLimitTime()
updateBuyLimitPercentage()
updateSellLimitPercentage()
blackListMultipleAddresses()

```

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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
COD-02	Timestamp manipulation via <code>block.timestamp</code>	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-05	Missing zero address validation	

Below mentioned functions are missing zero address validation:


```
updateDevelopmentWallet()  
updateMarketingWallet()  
updateUniswapV2Router()  
blackListAddress()  
setAutomatedMarketMakerPair()
```

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## RECOMMENDATION

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



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.

```
developmentWallet = 0xC6c7a0659C5e3AE8a8a305Fd0aEf1827D3C49B1;  
marketingWallet = 0x8dB24737563e5b5cFcc9DCEd6439De0D56d53c7D;  
address newOwner = 0x3d27d7106f7202ecfF115834EBa72C034E912703;
```

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## RECOMMENDATION

Private keys of externally owned accounts must be secured carefully.



Identifier	Definition	Severity
COD-08	Missing fallback function	

Fallback functions are usually executed in one of the following cases: If a function identifier doesn't match any of the available functions in a smart contract. If there was no data supplied along with the function call.

## RECOMMENDATION

Use fallback function with empty data, and mark it external, and payable.



Identifier	Definition	Severity
COD-09	Missing contract balance withdraw	

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

## RECOMMENDATION

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



Identifier	Definition	Severity
COD-10	Third Party Dependencies	Minor ●


Smart contract is interacting with third party protocols e.g., Market Makers, Open Zeppelin. 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.

## RECOMMENDATION

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





Identifier	Definition	Severity
COM-04	Potential resource exhaustion errors	Minor 

Below mentioned functions may throw gas exhaustion errors upon executing:

```
blackListMultipleAddresses()  
excludeMultipleAccountsFromFees()  
excludeMultipleAccountsFromLimit()
```

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## RECOMMENDATION

Set an upper limit for multi-address calls, e.g., 10 wallets can be blacklisted in a single transaction.



## 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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SMART CONTRACT AUDITS | SOLIDITY DEVELOPMENT AND TESTING  
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