

SMART CONTRACT AUDIT

- interfinetwork
- hello@interfi.network
- https://interfi.network

PREPARED FOR

SHIBA-DOGE-PEPE-FLOKI-X



INTRODUCTION

Auditing Firm	InterFi Network
Client Firm	ShibaDogePepeFlokiX
Methodology	Automated Analysis, Manual Code Review
Language	Solidity
Contract	0x05bFC19d5fBe243A911151d108B352bcE04c088b
Blockchain	Ethereum Chain
Centralization	Ownership Renounced
Commit AUDIT REPORT CONFI	43ef4117606015cc5a07c0ed57bad61e79a74428
Website	
Report Date	September 19, 2023

I 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	0	0	1	0	0
Acknowledged	0	0	0	1	1
Resolved	0	0	0	1	0
Noteworthy Functions Burn From, Burn					



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	2
SCOPE OF WORK	
AUDIT METHODOLOGY	
RISK CATEGORIES	
AUTOMATED ANALYSIS	
INHERITANCE GRAPH	
MANUAL REVIEW	
DISCLAIMERS	
ABOUT INTERFI NETWORK	20



SCOPE OF WORK

InterFi was consulted by ShibaDogePepeFlokiX 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:

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

Public Contract Link				
https://etherscan.io/token/0x05bFC19d5fBe243A911151d108B352bcE04c088b#code				
Contract Name TERF	ShibaDogePepeFlokiX FLINTERFLINTERF			
Compiler Version	0.8.19			
License	No License			



AUDIT METHODOLOGY

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

CONNECT

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

AUDIT

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

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



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

REPORT

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

PUBLISH

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



RISK CATEGORIES

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

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

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

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



AUTOMATED ANALYSIS

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

```
| **ShibaDogePepeFlokiX** | Implementation | ERC20, ERC20Burnable, Ownable |||
| └ | <Constructor> | Public ! | ● | ERC20 |
| L | <Receive Ether> | External ! | 💹 |NO! |
| L | decimals | Public ! | NO! |
\Pi\Pi\Pi\Pi
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
| └ | <Constructor> | Public ! | ● |NO! |
| L | name | Public ! | NO! |
| L | symbol | Public ! | NO! |
| L | decimals | Public ! | NO! |
| L | totalSupply | Public ! | NO! |
| L | balanceOf | Public ! | NO! |
| L | transfer | Public ! | 🔎 |NO! |
| L | allowance | Public ! | NO! |
| L | approve | Public ! | • |NO! |
| L | transferFrom | Public ! | 🛑 |NO! |
```



```
| L | increaseAllowance | Public ! | • | NO! |
| L | decreaseAllowance | Public ! | 📦 |NO! |
| └ | _transfer | Internal 🗎 | ● | |
| L | _mint | Internal 🗎 | 🛑 | |
| └ | _approve | Internal 🗎 | ● | |
| └ | _spendAllowance | Internal 🗎 | ● | |
| └ | _beforeTokenTransfer | Internal 🗎 | ● | |
| └ | _afterTokenTransfer | Internal 🗎 | 🔴 | |
111111
| **ERC20Burnable** | Implementation | Context, ERC20 |||
| L | burn | Public ! | | NO! |
| L | burnFrom | Public ! | 🔎 |NO! |
\Pi\Pi\Pi\Pi
| **Ownable** | Implementation | Context |||
| └ | <Constructor> | Public ! | ● |NO! |
| L | owner | Public ! | NO! |
| L | renounceOwnership | Public ! | Gentlement | onlyOwner |
| L | transferOwnership | Public ! | 🔴 | onlyOwner |
| └ | _transferOwnership | Internal 🗎 | 🛑 | |
| **Context** | Implementation | |||
| <sup>L</sup> | _msgData | Internal <sup>□</sup> | | |
| **IERC20** | Interface | |||
| L | totalSupply | External ! | NO! |
```

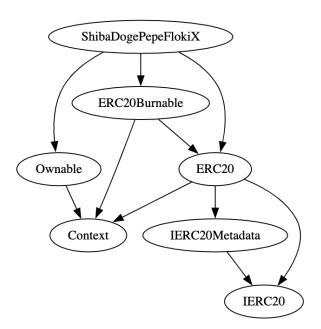








INHERITANCE GRAPH



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MANUAL REVIEW

Identifier	Definition	Severity
CEN-01	Centralized privileges of ShibaDogePepeFlokiX	Minor

only0wner centralized privileges are listed below:

renounceOwnership()

transferOwnership()

RECOMMENDATION

Deployers, contract owners, administrators, access controlled, 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.

<u>Implement multi-signature wallets:</u> Require multiple signatures from different parties to execute certain sensitive functions within contracts. This spreads control and reduces the risk of a single party having complete authority.

<u>Use a decentralized governance model:</u> Implement a governance model that enables token holders or other stakeholders to participate in decision-making processes. This can include voting on contract upgrades, parameter changes, or any other critical decisions that impact the contract's functioning.

RESOLUTION

ShibaDogePepeFlokiX team has renounced smart contract ownership at txn: etherscan.io/tx/0x11b6f536df8dc6e923ee9684b6469e42659a285fb2b2881b26ebfa4c8e559584



Identifier	Definition	Severity
CEN-02	Initial asset distribution	Minor •

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

```
constructor() ERC20(unicode"ShibaDogePepeFlokiX", unicode"MEMECOIN") {
    _mint(supplyRecipient, 9999999999999 * (10 ** decimals()) / 10);
```

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RECOMMENDATION

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

ACKNOWLEDGEMENT

ShibaDogePepeFlokiX project will distribute tokens after acquiring broader consensus, as per their predetermined tokenomics.



Identifier	Definition	Severity
LOG-02	Potential front-running	Medium

Potential front-running 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.

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RECOMMENDATION

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

ACKNOWLEDGEMENT

ShibaDogePepeFlokiX project acknowledged that certain forms of bot activities, such as rapid-fire transactions, and front-running are by-product of EVM blockchains like Ethereum. They can-not be completely avoided.



Identifier	Definition	Severity
COD-10	Third Party Dependencies	Unknown 🗨

Smart contract is interacting with third party protocols e.g., Market Makers, External Contracts such as Bridge Contract, Centralized and Decentralized Applications, Open Zeppelin tools. The scope of the audit treats third party entities as black boxes and assumes their functional correctness. However, in the real world, third parties can be compromised, and exploited. Moreover, upgrades in third parties can create severe impacts, e.g., increased transactional fees, deprecation of previous routers, etc.

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RECOMMENDATION

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

ACKNOWLEDGEMENT

ShibaDogePepeFlokiX team will inspect dependencies periodically, and provide amendments when possible.



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.

Website: https://interfi.network

Email: hello@interfi.network

GitHub: https://github.com/interfinetwork

Telegram (Engineering): https://t.me/interfiaudits

Telegram (Onboarding): https://t.me/interfisupport









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