



# SMART CONTRACT AUDIT

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PREPARED FOR

**TRIP**



# INTRODUCTION

|                |   |
|----------------|---|
| Auditing Firm  | InterFi Network                                   |
| Client Firm    | Trip  |
| Methodology    | Automated Analysis, Manual Code Review            |
| Language       | Solidity  |
|                |   |
| Contract       | 0xc9bfb93d75645c4681bb63794abflacad44725e7        |
| Blockchain     | Binance Smart Chain                               |
| Centralization | Active Ownership                                  |
| Commit         | 9f7b0a6512127722e329f2ad2b2d1d3b99341580          |
|                |   |
| Website        | <a href="https://Trip.game">https://Trip.game</a> |
| Report Date    | January 29, 2025                                  |


 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 <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   | 0  | 2  | 0  |
| Acknowledged | 0   | 0   | 1  | 1  | 0  |
| Resolved     | 0   | 0   | 0  | 0  | 0  |

 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.

 Please note that the absence of public KYC verification of the project owners, team members, or deployers associated with Trip. Typically, third-party KYC processes are instrumental in ensuring the transparency and accountability of a project's leadership, thereby enhancing user trust and regulatory compliance. Without external KYC verification by reputable providers, users may face increased risks related to rug pull.



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## SCOPE OF WORK

InterFi was consulted by Trip 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:

- Trip.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://bscscan.com/token/0xbb1106c7deb7cc60efa51391760b14aed8cb5bed#code">https://bscscan.com/token/0xbb1106c7deb7cc60efa51391760b14aed8cb5bed#code</a> |              |
|   |              |
| Contract Name   | Trip         |
| Compiler Version  | 0.5.16       |
| License   | None 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:

|                      |   |
|----------------------|---|
| 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 | <ul style="list-style-type: none"> <li>○ Integer Overflow</li> <li>○ Lack of Arbitrary limits</li> <li>○ Incorrect Inheritance Order</li> <li>○ Typographical Errors</li> <li>○ Requirement Violation</li> <li>○ Gas Optimization</li> <li>○ Coding Style Violations</li> <li>○ Re-entrancy</li> <li>○ Third-Party Dependencies</li> <li>○ Potential Sandwich Attacks</li> <li>○ Irrelevant Codes</li> <li>○ Divide before multiply</li> <li>○ Conformance to Solidity Naming Guides</li> <li>○ Compiler Specific Warnings</li> <li>○ Language Specific Warnings</li> </ul> |
|---------------------------------|---|

## 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

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:

| Risk Type  | Definition   |
|------------|--|
| Critical 🚫 | These risks pose immediate and severe threats, such as asset theft, data manipulation, or complete loss of contract functionality. They are often easy to exploit and can lead to significant, irreparable damage. Immediate fix is required.            |
| Major 🟡    | These risks can significantly impact code performance and security, and they may indirectly lead to asset theft and data loss. They can allow unauthorized access or manipulation of sensitive functions if exploited. Fixing these risks are important. |
| Medium 🟡   | These risks may create attack vectors under certain conditions. They may enable minor unauthorized actions or lead to inefficiencies that can be exploited indirectly to escalate privileges or impact functionality over time.                          |
| Minor 🟢    | These risks may include inefficiencies, lack of optimizations, code-style violations. These should be addressed to enhance overall code quality and maintainability.   |
| Unknown 🟤  | These risks pose uncertain severity to the contract or those who interact with it. Immediate fix is required to mitigate risk uncertainty.   |

All statuses which are identified in the audit report are categorized here:

| 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   |

```

| **IBEP20** | Interface | |||
|  L | totalSupply | External ! | |NO ! |
|  L | decimals | External ! | |NO ! |
|  L | symbol | External ! | |NO ! |
|  L | name | External ! | |NO ! |
|  L | getOwner | External ! | |NO ! |
|  L | balanceOf | External ! | |NO ! |
|  L | transfer | External ! |  |NO ! |
|  L | allowance | External ! | |NO ! |
|  L | approve | External ! |  |NO ! |
|  L | transferFrom | External ! |  |NO ! |
|||||
| **Context** | Implementation | |||
|  L | <Constructor> | Internal   | |
|  L | _msgSender | Internal  | | |
|  L | _msgData | 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 🔒 | | |

```

```

|||||

```

```

| **Ownable** | Implementation | Context |||

```

```

| L | <Constructor> | Internal 🔒 | 🔴 | |
| L | owner | Public ! | |NO! |
| L | renounceOwnership | Public ! | 🔴 | onlyOwner |
| L | transferOwnership | Public ! | 🔴 | onlyOwner |
| L | _transferOwnership | Internal 🔒 | 🔴 | |

```

```

|||||

```

```

| **Trip** | Implementation | Context, IBEP20, Ownable |||

```

```

| L | <Constructor> | Public ! | 🔴 |NO! |
| L | getOwner | External ! | |NO! |
| L | decimals | External ! | |NO! |
| L | symbol | External ! | |NO! |
| L | name | External ! | |NO! |
| L | totalSupply | External ! | |NO! |
| L | balanceOf | External ! | |NO! |
| L | transfer | External ! | 🔴 |NO! |
| L | allowance | External ! | |NO! |
| L | approve | External ! | 🔴 |NO! |
| L | transferFrom | External ! | 🔴 |NO! |

```



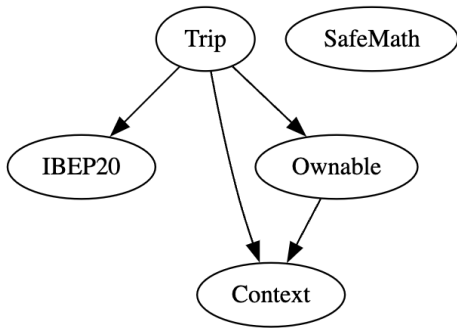
|  |   |  |                   |  |          |   |  |   |  |    |   |  |
|--|---|--|-------------------|--|----------|---|--|---|--|----|---|--|
|  | ^ |  | increaseAllowance |  | Public   | ! |  | 🔴 |  | NO | ! |  |
|  | ^ |  | decreaseAllowance |  | Public   | ! |  | 🔴 |  | NO | ! |  |
|  | ^ |  | _transfer         |  | Internal | 🔒 |  | 🔴 |  |    |   |  |
|  | ^ |  | _burn             |  | Internal | 🔒 |  | 🔴 |  |    |   |  |
|  | ^ |  | _approve          |  | Internal | 🔒 |  | 🔴 |  |    |   |  |
|  | ^ |  | _burnFrom         |  | Internal | 🔒 |  | 🔴 |  |    |   |  |

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## INHERITANCE GRAPH



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## MANUAL REVIEW

| Identifier | Definition                     | Severity  |
|------------|--------------------------------|---|
| CEN-01     | Centralized privileges of Trip | Minor  |

Important on ly0wner centralized privileges are listed below:

`transfer0wnership()`

`renounce0wnership()`

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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. Manage centralized and privileged roles carefully, review PAGE 09 for more information.



| Identifier | Definition                 | Severity |
|------------|----------------------------|----------|
| CEN-02     | Initial asset distribution | Medium 🟡 |

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.

```

_totalSupply = 100000000 * 10 ** 18;
_balances[msg.sender] = _totalSupply;
emit Transfer(address(0), msg.sender, _totalSupply);

```

## RECOMMENDATION

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

## ACKNOWLEDGEMENT

Trip team acknowledged to distribute assets as per their pre-determined tokenomics.



| Identifier | Definition              | Severity |
|------------|-------------------------|----------|
| LOG-02     | Potential front-running | Minor ●  |

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>





| Identifier | Definition                        |  |
|------------|-----------------------------------|--|
| COD-09     | Missing 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.

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## 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., Pancakeswap. 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.

## ACKNOWLEDGEMENT

Trip team will inspect third party dependencies regularly.



| Identifier | Definition                | Severity |
|------------|---------------------------|----------|
| COM-02     | Outdated compiler version | Major 🟡  |

Compiler is set an outdated version.

```
pragma solidity 0.5.16;
```

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## RECOMMENDATION

Set Compiler to version 0.8.12 or above.



## 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 Tripriy 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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