



BlockChain Tools

# Smart Contract Audit



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PREPARED FOR

**DEEPBOOK AI**

**Token**

# Introduction

|               |   |
|---------------|---|
| Auditing Firm | BlockchainTools   |
| Client Firm   | DEEPBOOK AI   |
| Methodology   | Automated Analysis, Manual Code Review                                    |
| Contract      | 0x7714D742264296a6208C05D5089b7D815684e806                                |
| Blockchain    | BSC Blockchain  |
| Mutability    | Immutable   |
| Website       | <a href="http://deepbookai.io/">http://deepbookai.io/</a>                 |
| Telegram      | <a href="https://t.me/deepbookai">https://t.me/deepbookai</a>             |
| X (Twitter)   | <a href="https://x.com/deepbook_ai">https://x.com/deepbook_ai</a>         |
| Gitbook       | <a href="https://github.com/deepbookai">https://github.com/deepbookai</a> |
| Report Date   | 21 Sep 2025   |

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



# EXECUTIVE SUMMARY

BlockchainTools has conducted both automated and manual analyses of the source code, reviewing it for common contract vulnerabilities and potential centralized exploits. Here's a brief audit summary:

| Status       | Critical | Major | Medium | Minor | Unknown |
|--------------|----------|-------|--------|-------|---------|
| Open         | 0        | 0     | 0      | 0     | 0       |
| Acknowledged | 0        | 0     | 0      | 0     | 0       |
| Resolved     | 0        | 0     | 1      | 1     | 0       |

- Please be aware that smart contracts deployed on blockchains are not immune to exploits, vulnerabilities, or hacks. Blockchain and cryptographic assets rely on emerging technologies, which inherently carry significant risks. For a comprehensive understanding of risk severity, source code vulnerabilities, and audit limitations, we recommend reviewing the audit report thoroughly.
- Additionally, centralization privileges—regardless of their inherent risk level—can significantly impact the safety and security of smart contracts.



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## SCOPE OF WORK

- BlockchainTools was consulted by DEEPBOOK-AI to conduct the smart contract audit of their source codes. The audit scope of work is strictly limited to mentioned token only:
- 0x7714D742264296a6208C05D5089b7D815684e806
- 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:
- Token Link

<https://bscscan.com/address/0x7714D742264296a6208C05D5089b7D815684e806>

|                  |  |
|------------------|--|
| Token Name       | <b>DEEPBOOK-AI</b>                         |
| Owner Program    | 0x7714D742264296a6208C05D5089b7D815684e806 |
| Current Supply   | 1B Token                                   |
| Decimals         | 18   |
| Token Extensions | False                                      |



# AUDIT METHODOLOGY

## Smart Contract Auditing Process on BSC Blockchain

Smart contract audits on the BSC blockchain follow a structured methodology to ensure security, efficiency, and compliance with best practices. Mutual collaboration is essential for an effective audit. Below is an overview of DEEPBOOK-AI's auditing process and methodology for SOLIDITY-based smart contracts:

### CONNECT

- The onboarding team gathers SOLIDITY language source code and contract specifications to understand the scope and complexity of the audit.

### AUDIT

- *Automated Analysis:*
  - Performed using specialized tools to detect vulnerabilities in SOLIDITY-based smart contracts.
  - Common tools and frameworks include:
    - BSC SOLIDITY Analyzer (for contract structure and security checks)
    - SWC Vulnerabilities Registry (for identifying known smart contract weaknesses)
    - Formal Verification Tools (to ensure secure execution and prevent logical errors)
- **Simulation & Stress Testing:**
  - Transaction simulations are executed to detect centralization risks, reentrancy attacks, and state inconsistencies.
  - Testing is conducted to identify potential execution failures and trade lock risks on BSC object-based model.
- **Manual Code Review:**
  - A line-by-line inspection is performed to detect vulnerabilities related to object ownership, access control, and transaction dependencies.
  - The audit specifically reviews risks associated with:
    - SOLIDITY module permissions (ensuring no unauthorized access)
    - Object mutability risks (to prevent unintended changes)
    - Storage and gas optimization (to enhance efficiency and cost-effectiveness)



## REPORT

The auditing team prepares a preliminary report detailing all performed checks and identified findings.

The client's development team reviews the report and implements necessary amendments to the SOLIDITY source code.

After revisions, the auditing team delivers a final comprehensive report, highlighting any open or unresolved issues.

## PUBLISH

The client can choose to use the audit report internally or make it publicly available.

**Note:** Smart contract audits on the BSC blockchain do not have a pass or fail status. Instead, they serve as an objective assessment of the security and robustness of the source code.

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# RISK CATEGORIES

Smart contracts are primarily designed to hold, approve, and transfer tokens, making them attractive targets for attackers.

**External Attacks:** A successful attack from an external entity may result in direct exploitation of the contract.

**Centralization Exploits:** If centralization risks exist, a privileged role may have the ability to manipulate the contract for personal gain.

All identified risks in the audit report are categorized below for reference and further 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.   |





# METADATA ANALYSIS

Metadata analysis on the BSC blockchain involves examining the SOLIDITY-based metadata structure of assets. Key attributes include object ownership, creator details, access controls, and linked multimedia files. This process ensures authenticity, integrity, and compliance with BSC decentralized standards. It helps detect unauthorized modifications or security risks in asset management. By verifying metadata, we enhance transparency and trust in BSC-based digital assets.

## Key Attributes Analyzed

*Object Ownership* – Tracks the ownership of assets.

*Creator Details* – Verifies the creator's identity.

*Access Controls* – Ensures appropriate permissions for asset modification and transactions.

*Multimedia Files* – Validates linked digital content (images, videos).

*Minting & Transaction Details* – Confirms compliance with minting and transaction rules.

## Conclusion

The analysis ensures that assets on the BSC blockchain are secure, comply with decentralization standards, and maintain transparency, enhancing trust and integrity within the ecosystem.



# DEFINITION

|                      |   |
|----------------------|---|
| Record Type          | Identifies the type of record within the BSC blockchain structure (e.g., asset, token, etc.).                           |
| UpdateAuthority      | Account authorized to update the asset's metadata.  |
| Mint                 | Represents the account responsible for creating this token or asset.  |
| Data                 | Contains specific details and attributes about the asset or token.  |
| Name                 | The name associated with this asset or token.   |
| Symbol               | Trading symbol of this asset or token.  |
| URI                  | A link to external information related to the asset, typically hosted on IPFS or another decentralized storage solution |
| SellerFeeBasisPoints | The sales fee for this token or asset, measured in basis points.  |
| PrimarySaleHappened  | Indicates whether this asset or token has been sold for the first time.   |
| IsMutable            | Specifies if metadata can be modified after creation. Once set to False, metadata cannot be changed again.              |
| EditionNonce         | An optional field used to distinguish different editions of the token or asset.   |
| TokenStandard        | Defines the compliance standard of the token  |
| Description          | A textual description of the token or asset, often providing additional context or details.                             |
| Image                | A link to an image or visual representation of the asset  |



# KEY INFORMATION

|   |
|---|
| <b>CreateAccount transaction</b>  |
| <a href="https://bscscan.com/address/0x7714D742264296a6208C05D5089b7D815684e806">https://bscscan.com/address/0x7714D742264296a6208C05D5089b7D815684e806</a> |

|                    |
|--------------------|
| <b>totalSupply</b> |
| 1 Billion          |

|                                 |
|---------------------------------|
| <b>New mintTokens authority</b> |
| NULL                            |

|                                    |
|------------------------------------|
| <b>New freezeAccount authority</b> |
| NULL                               |

|                  |
|------------------|
| <b>isMutable</b> |
| 0                |



# MANUAL REVIEW

| Identifier | Definition                 | Severity |
|------------|----------------------------|----------|
| CEN-02     | Initial token distribution | Medium   |

Centralized role holds substantial portion of the circulating supply. Large number of tokens in one address raises significant concerns about centralization within the token’s ecosystem.

TransactionsToken Transfers (BEP-20)ContractEventsAssets

CodeRead ContractWrite Contract

Contract Source Code Verified (Exact Match)

Contract Name:DEEPBOOKAI

Optimization Enabled:No with 200 runs

Compiler Versionv0.8.24+commit.e11b9ed9

Other Settings:default evmVersion, MIT license

Contract Source Code (Solidity)

IDEMore OptionsOutline

```
3  */
4
5  // SPDX-License-Identifier: MIT
6  // File: @openzeppelin/contracts/token/ERC20/IERC20.sol
7
8
9  // OpenZeppelin Contracts (last updated v5.4.0) (token/ERC20/IERC20.sol)
10
11  pragma solidity >=0.4.16;
12
13  /**
14   * @dev Interface of the ERC-20 standard as defined in the ERC.
15   */
16  interface IERC20 {
17      /**
18       * @dev Emitted when 'value' tokens are moved from one account ('from') to
19       * another ('to').
20       *
21       * Note that 'value' may be zero.
22       */
23      event Transfer(
24
25  /**
```

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## RECOMMENDATION

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

## RESOLUTION

DEEPBOOK-AI team will distribute tokens as per their pre-determined tokenomics.



# DISCLAIMERS

BlockchainTools provides an easy-to-understand audit of blockchain 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.

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# About BlockchainTools

BlockchainTools provides intelligent blockchain solutions. We specialize in smart contract development, testing, and auditing services. With over 150+ solidity codes developed, 1000+ smart contracts audited, and over 500,000+ lines of code analyzed, we have extensive experience working on major public blockchains such as Ethereum, Binance, Cronos, Doge, Polygon, Avalanche, Metis, Fantom, Bitcoin Cash, Velas, Oasis, and more.

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

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