

Smart Contract Security Audit Report

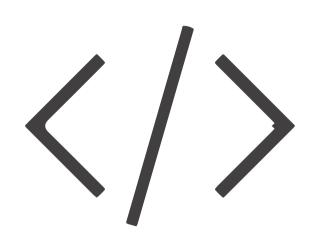
Tokyo AU Token

September 2022

Audit Details



Audited project Tokyo AU Token



Deployer address

0x9dD19e479De6d8D28FF837Ca9a00dfD7b3c3684c



Client contacts

Tokyo AU Token Team



Binance Smart Chain



Website

https://tokau.io/

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Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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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.

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Procedure

Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

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Background

HackSafe was commissioned by Tokyo AU Token to perform an audit of smart contracts:

• https://bscscan.com/address/0xc409ec8a33f31437ed753c82eed3c5f16d6d7e22#code

The purpose of the audit was to achieve the

- Ensutre that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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Contract Details

Token contract details for 13.09.2022

Token Type : ERC20

Contract name : TokAu

Contract address : 0xC409eC8a33f31437Ed753C82EEd3c5F16d6D7e22

Compiler version : v0.8.4+commit.c7e474f2

Total supply : 1,000,000,000,000,000

Token ticker : TOKAU

Decimals : 18

Token holders : 78,188

Transactions count : 661,173

Contract deployer

address

: 0x9dD19e479De6d8D28FF837Ca9a00dfD7b3c3684c

Owner address : No owner

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Social profiles

| Github profile | : https://github.com/tokau-tech |
|-----------------------|--|
| Telegram profile | : https://t.me/tokau2021 |
| Coinmarketcap profile | : https://coinmarketcap.com/currencies/tokyo-au/ |
| Coingecko profile | : https://www.coingecko.com/en/coins/tokyo-au/ |

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Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are "Secure". This token contract does not contain owner control, which do make it fully decentralized as owner does not have control over smart contract.

Insecure Poor Secure Well-secured



You are here

We used various tools like Slither, Mythril and Remix IDE. At the same time this finding is based on critical analysis of the manual audit. All issues found during automated analysis were manually reviewed and applicable vulnerabilities are presented in the issues checking status.

We found 0 critical, 0 high, 0 medium and 1 low and some very low-level issues. These issues are not critical ones.

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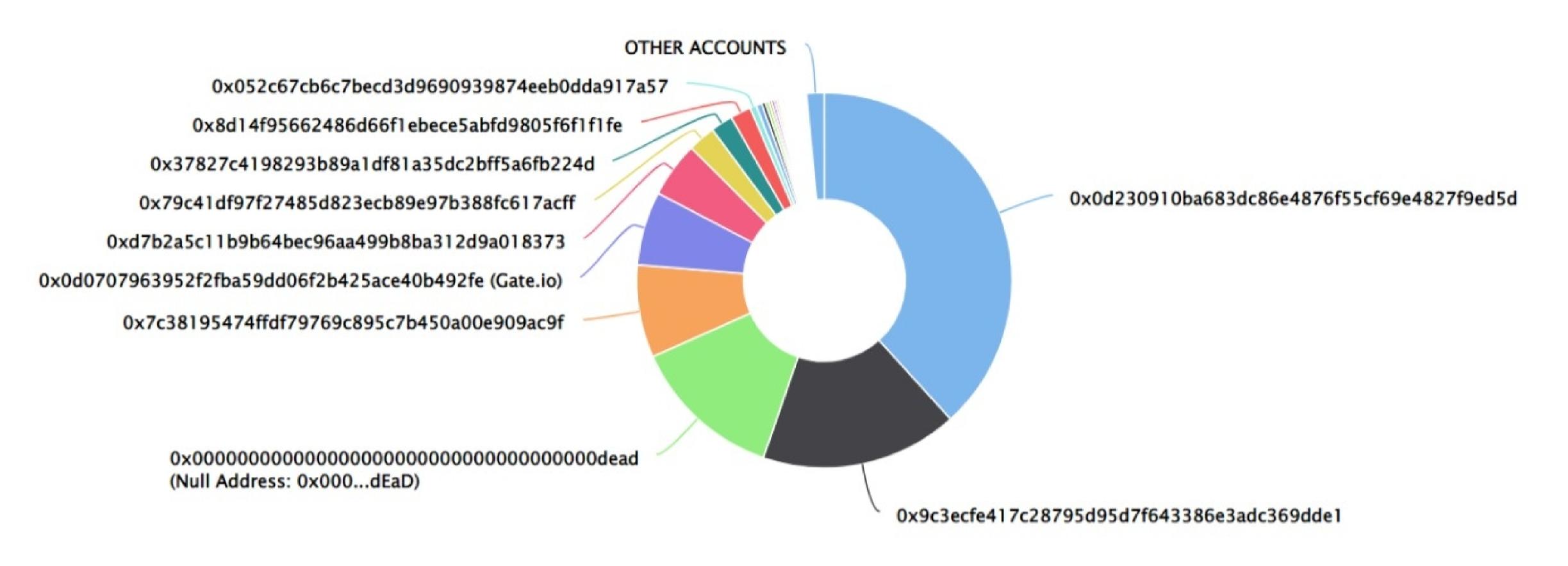
Tokyo AU Token Token Distribution

The top 100 holders collectively own 98.48% (984,760,304,716,552.00 Tokens) of Tokyo AU Token

▼ Token Total Supply: 1,000,000,000,000,000.00 Token | Total Token Holders: 78,188

Tokyo AU Token Top 100 Token Holders

Source: BscScan.com



Tokyo AU Token Top 20 Token Holders

(A total of 984,760,304,716,552.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000,000.00 token)

| Rank | Address | Quantity (Token) | Percentage |
|------|--|--|------------|
| 1 | ①x0d230910ba683dc86e4876f55cf69e4827f9ed5d | 382,679,881,797,498.907920824525081151 | 38.2680% |
| 2 | 0x9c3ecfe417c28795d95d7f643386e3adc369dde1 | 169,999,996,840,000 | 17.0000% |
| 3 | Null Address: 0x000dEaD | 130,656,992,845,111.007640524041901502 | 13.0657% |
| 4 | ①x7c38195474ffdf79769c895c7b450a00e909ac9f | 80,000,000,009,001 | 8.0000% |
| 5 | Gate.io Cate.io | 63,615,655,299,485.718337223289080182 | 6.3616% |
| 6 | ①xd7b2a5c11b9b64bec96aa499b8ba312d9a018373 | 47,669,692,888,286.005348 | 4.7670% |
| 7 | 0x79c41df97f27485d823ecb89e97b388fc617acff | 23,840,377,290,947.56783582674621401 | 2.3840% |
| 8 | 0x37827c4198293b89a1df81a35dc2bff5a6fb224d | 18,972,550,057,551.44 | 1.8973% |
| 9 | 0x8d14f95662486d66f1ebece5abfd9805f6f1f1fe | 17,884,204,523,408.903360979567353159 | 1.7884% |
| 10 | ①x052c67cb6c7becd3d9690939874eeb0dda917a57 | 5,514,120,000,000.0000010420040001 | 0.5514% |
| 11 | ①x636fbd4c6dced5369fac6127945575cf2c03c3c4 | 5,051,235,711,451 | 0.5051% |
| 12 | ①x339b39341e8f8252f679504f1b0a83b8e8750b3f | 3,205,863,720,816.305103671915175898 | 0.3206% |
| 13 | 0x3a3d8d4867b4949a8ec789b51fb00db720614d06 | 2,879,000,000,000 | 0.2879% |
| 14 | 0x349f0cb1f5413dd56a6b39e39002f80f82785c57 | 2,500,000,000 | 0.2500% |
| 15 | ①xa9f65a288ab4c4fae59192d3867b5c27136a12a4 | 2,288,257,119,254.358384532330533364 | 0.2288% |
| 16 | 0x8aabe00dc75fc03f4002b1c32789fb5745a20135 | 2,000,000,000 | 0.2000% |
| 17 | 0x7434e448ae5665f5f3262a2440fa603dfdc30421 | 1,800,000,000 | 0.1800% |
| 18 | 0xf58fbf089fc46945449bf56d2da1fd559d353cf3 | 1,500,000,000 | 0.1500% |
| 19 | 0x6e9b74bdce04f36b5963da19d3424aa869b6439c | 1,500,000,000 | 0.1500% |
| 20 | 0xe4e4d15a07be18121e1c28d6e9614056c20b1c41 | 1,500,000,000 | 0.1500% |

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Contract functions details

```
+ [Int] IERC20
    -[Ext] totalSupply
    -[Ext] balanceOf
    -[Ext] transfer
    -[Ext] allowance
    -[Ext] approve
    -[Ext] transferFrom
+[Int] IERC20Metadata (IERC20)
    -[Ext] name
    -[Ext] symbol
    -[Ext] decimals
+ Context
    -[Int] _msgSender
    -[Int] _msgData
+ERC20 (Context, IERC20, IERC20Metadata)
    -<constructor>
    -[Pub] name
    -[Pub] symbol
    -[Pub] decimals
    -[Pub] totalSupply
    -[Pub] balanceOf
    -[Pub] transfer #
    -[Pub] allowance
    -[Pub] approve #
    -[Pub] transferFrom #
    -[Pub] increaseAllowance
    -[Pub] decreaseAllowance
    -[Int] _transfer #
    -[Int] _mint#
    -[Int] _burn #
    -[Int] _approve #
    -[Int] _beforeTokenTransfer #
+TokAu (ERC20)
    -<constructor>
```

Contract functions details

(\$) = payable function
= non-constant function

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Issues Checking Status

| No. | Title | Status |
|-----|---|-----------|
| 1. | Unlocked Compiler Version | Low issue |
| 2. | Missing Input Validation | Passed |
| 3. | Race conditions and Reentrancy. Cross-function race conditions. | Passed |
| 4. | Possible delays in data delivery | Passed |
| 5. | Oracle calls. | Passed |
| 6. | Timestamp dependence. | Passed |
| 7. | Integer Overflow and Underflow | Passed |
| 8. | DoS with Revert. | Passed |
| 9. | DoS with block gas limit. | Passed |
| 10. | Methods execution permissions. | Passed |
| 11. | Economy model of the contract. | Passed |
| 12. | Private use data leaks. | Passed |
| 13. | Malicious Event log. | Passed |
| 14. | Scoping and Declarations. | Passed |
| 15. | Uninitialized storage pointers. | Passed |
| 16. | Arithmetic accuracy. | Passed |
| 17. | Design Logic. | Passed |
| 18. | Safe Open Zeppelin contracts implementation and usage. | Passed |
| 19. | Incorrect Naming State Variable | Passed |
| 20. | Too old version | Passed |

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Severity Definitions

| Risk Level | Description |
|------------|---|
| Critical | Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations. |
| High | High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions |
| Medium | Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations. |
| Low | Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution. |

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Security Issues

Critical Severity Issues No critical severity issue found.

High Severity IssuesNo high severity issue found.

Medium Severity Issues No medium severity issues found.

Low Severity IssuesOne low severity issue found.

1. Unlocked Compiler Version.

Description

The contract utilizes an unlocked compiler version. An unlocked compiler version in the contract's source code permits the user to compile it at or above a particular version. This, in turn, leads to differences in the generated bytecode between compilations due to differing compiler version numbers. This can lead to ambiguity when debugging as compiler-specific bugs may occur in the codebase that would be difficult to identify over a span of multiple compiler versions rather than a specific one.

Recommendation

It is advisable that the compiler version is alternatively locked at the lowest version possible so that the contract can be compiled. For example, for version ^0.8.0 the contract should contain the following line:

pragma solidity 0.8.4;

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Conclusion

Smart contract contains low severity issues! The further transfer and operations with the fund raised are not related to this particular contract.

HackSafe note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.

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