



Smart Contract Security Audit Report

MT TOKEN

April 2023

Security Status



www.hacksafe.io



Audit Details



Audited project

MT TOKEN



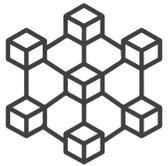
Deployer address

0xbc6ef5fa6e14894e6463b0857f70a5349447f640



Client contacts

MT TOKEN team



Blockchain

Ethereum



Website

<https://mytoken.io/>

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.

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.

Background

HackSafe was commissioned by MT TOKEN to perform an audit of smart contracts:

- <https://etherscan.io/token/0x9b4e2b4b13d125238aa0480dd42b4f6fc71b37cc#code>

The purpose of the audit was to achieve the following:

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

The information in this report should be understood to 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.

Contract Details

Token contract details for 06.04.2023

Type	: DAPP
Contract name	: ERC20Token
Contract address	: 0x9b4e2B4B13d125238Aa0480dD42B4f6fC71b37CC
Total supply	: 4,000,000,000
Token Ticker	: MT
Decimals	: 18
Token Holders	: 36,279
Transactions count	: 262,674
Compiler version	: v0.4.20+commit.3155dd80
Contract deployer address	: 0xbc6ef5fa6e14894e6463b0857f70a5349447f640
Owner address	: No Owner

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 secured

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 0 low and some very low-level issues. These issues are not critical ones.

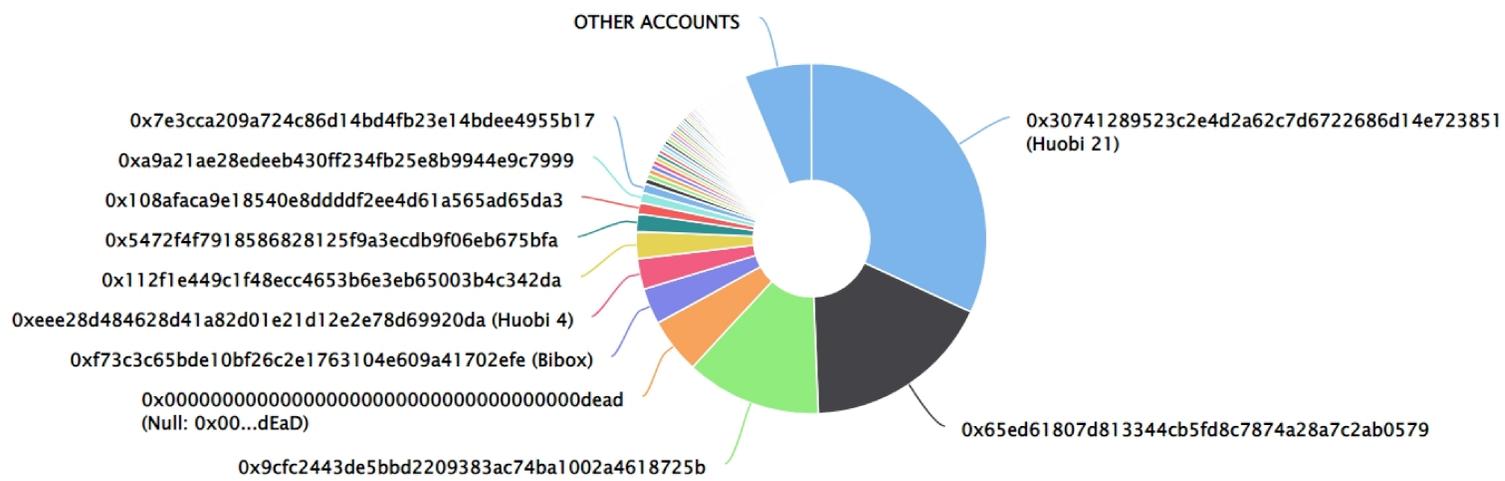
MT TOKEN Token Distribution

The top 100 holders collectively own 93.79% (3,751,425,288.83 Tokens) of MT Token

Token Total Supply: 4,000,000,000.00 Token | Total Token Holders: 36,279

MT Token Top 100 Token Holders

Source: Etherscan.io



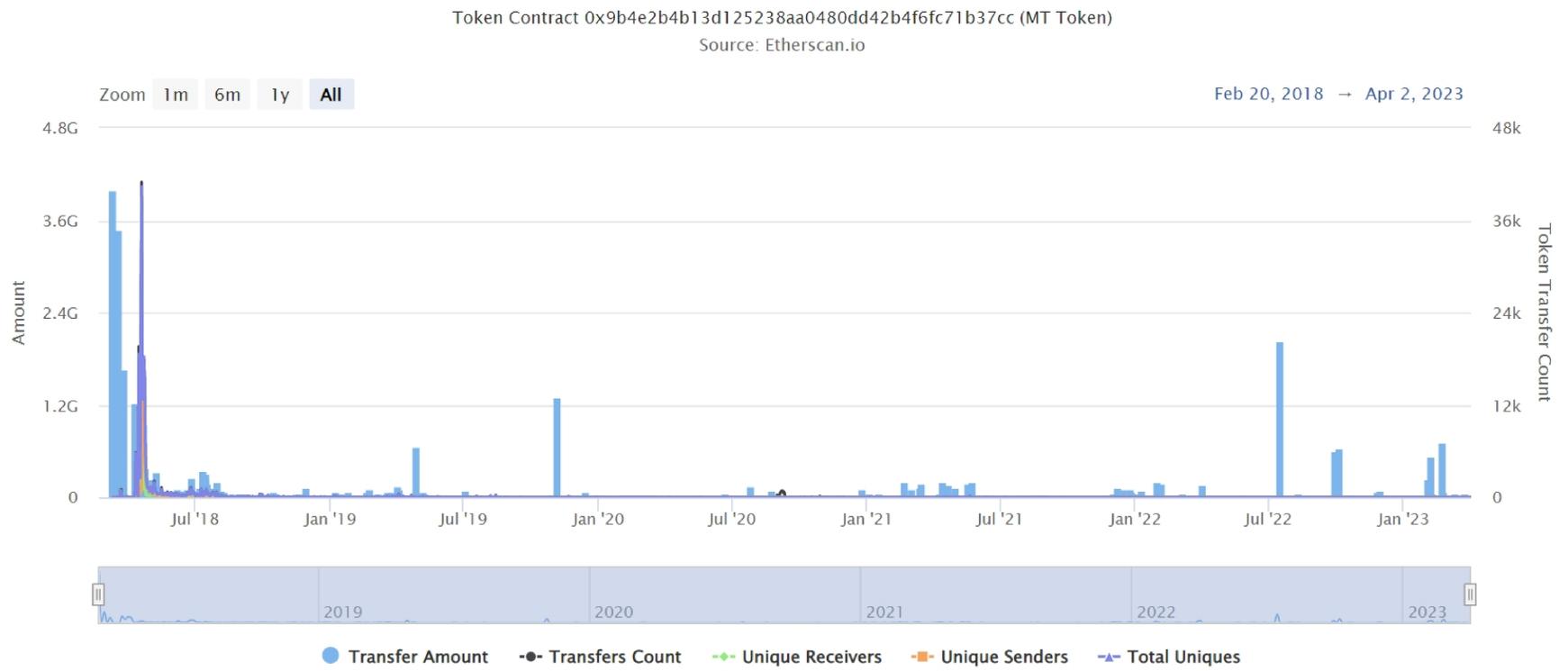
MT TOKEN Token Top 20 Token Holders

(A total of 3,751,425,288.83 tokens held by the top 100 accounts from the total supply of 4,000,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	Huobi 21	1,275,636,301.63777602041121499	31.8909%
2	0x65ED61...c2AB0579	700,000,000	17.5000%
3	0x9cFc24...4618725B	500,000,000	12.5000%
4	Null: 0x00...dEaD	204,287,021	5.1072%
5	Bibox	133,582,176.293539870096	3.3396%
6	Huobi 4	112,901,064.645270739	2.8225%
7	0x112F1E...b4C342Da	100,000,000	2.5000%
8	0x5472f4...Eb675BFa	64,759,343.94857157	1.6190%
9	0x108afa...5aD65Da3	41,471,041.362093	1.0368%
10	0xA9A21a...4E9c7999	36,696,277.64456649	0.9174%
11	0x7E3Cca...e4955b17	34,000,112.5398888	0.8500%
12	Uniswap V3: MT	20,136,097.61416476057137954	0.5034%
13	0x04d180...E2C9B088	18,890,788.87744445	0.4723%
14	0x075E89...36185276	18,830,172.48336554	0.4708%
15	0x4600FF...9ad11715	18,223,005.56274101	0.4556%
16	0x8998d2...3A5de605	16,567,551	0.4142%
17	0x1B5805...4180DE78	15,000,000.5457784	0.3750%
18	0x99fe5D...957A8888	14,600,575.52134770999995	0.3650%
19	0xad3AD4...0DAe30a2	13,709,615.17167849	0.3427%
20	0x6a9F81...49aE8481	13,324,750.32010305	0.3331%

MT TOKEN Token Distribution

MT TOKEN Token Contract Overview



Contract functions details

+Token

- totalSupply
- balanceOf
- transfer
- transferFrom
- approve
- allowance

+StandardToken (Token)

- transfer #
- transferFrom #
- balanceOf
- approve #
- allowance

+ERC20Token (StandardToken)

- ERC20Token #
- approveAndCall #

(\$) = payable function

= non-constant function

Issues Checking Status

No.	Title	Status
1.	Unlocked Compiler Version	Passed
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

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.

Security Issues

✔ **Critical Severity Issues**

No critical severity issue found.

✔ **High Severity Issues**

No high severity issue found.

✔ **Medium Severity Issues**

No Medium severity issues found.

✔ **Low Severity Issues**

No low severity issue found.

Conclusion

Smart contract contains no medium severity issues! Liquidity pair contract's security is not checked due to out of scope.

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.