



MOTECH AUDIT

SMART CONTRACT SECURITY AUDIT

SECURITY ASSESSMENT

MECH MASTER TOKEN AUDIT REPORT

2021

18 NOV 2021

SECURITY ASSESMENT

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SUMMARY

This report has been prepared for Mech Master to discover issues and vulnerabilities in the source code of the Mech Master project as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Static Analysis, Manual Review, and Testnet Deployment techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

The security assessment resulted in findings that ranged from critical to informational. We recommend addressing these findings to ensure a high level of security standards and industry practices. We suggest recommendations that could better serve the project from the security perspective:

- Enhance general coding practices for better structures of source codes;
- Add enough unit tests to cover the possible use cases given they are currently missing in the repository;
- Provide more comments per each function for readability, especially contracts are verified in public;
- Provide more transparency on privileged activities once the protocol is live.



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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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SECURITY ASSESSMENT BACKGROUND

MotechAudit was commissioned by Mech Master to perform an audit of smart contracts:

<https://bscscan.com/address/0xc7b7844494c516b840a7a4575ff3e60ff0f056a9>

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 used 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.



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AUDIT DETAILS



AUDITED PROJECT

Mech Master



DEPLOYER ADDRESS

0xF3D3Aa42a31CA1D9BDA40B413afEa1Ec6e6f2c12



CLIENT CONTACTS:

Mirai Studio



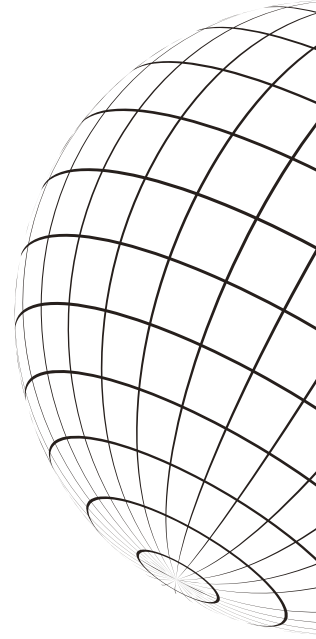
BLOCKCHAIN

Binance smart chain Project



WEBSITE:

<https://mechmaster.io/>

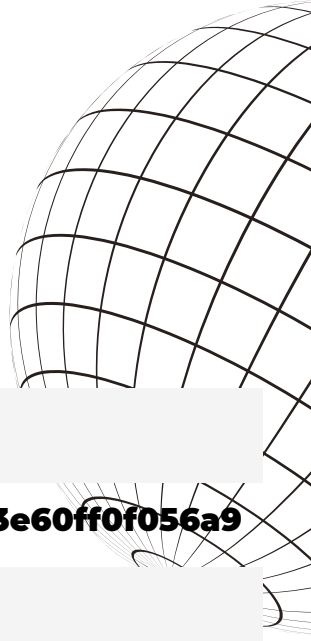


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CONTRACT DETAILS

Token contract details for Oct-22-2021



Contract name	Mech Master
Contract address	0xc7b7844494c516b840a7a4575ff3e60ff0f056a9
Total supply	650,000,000 MECH
Token ticker	MechMaster (MECH)
Decimals	18
Token holders	5,295
Transactions count	63,158
Top 100 holders dominance	99.2500%
Contract deployer address	0xF3D3Aa42a31CA1D9BDA40B413afEa1Ec6e6f2c12
Contract's current owner address	0xF3D3Aa42a31CA1D9BDA40B413afEa1Ec6e6f2c12

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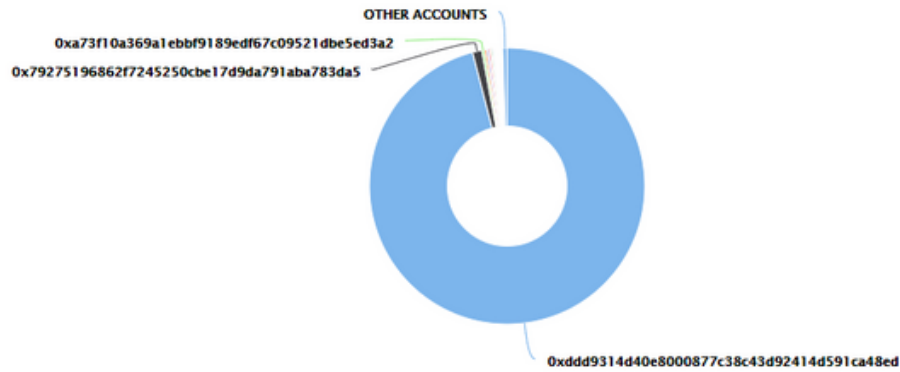
MECH MASTER TOKEN DISTRIBUTION

The top 100 holders collectively own 99.50% (646,726,644.65 Tokens) of MechMaster

Token Total Supply: 650,000,000.00 Token | Total Token Holders: 5,299

MechMaster Top 100 Token Holders

Source: BscScan.com



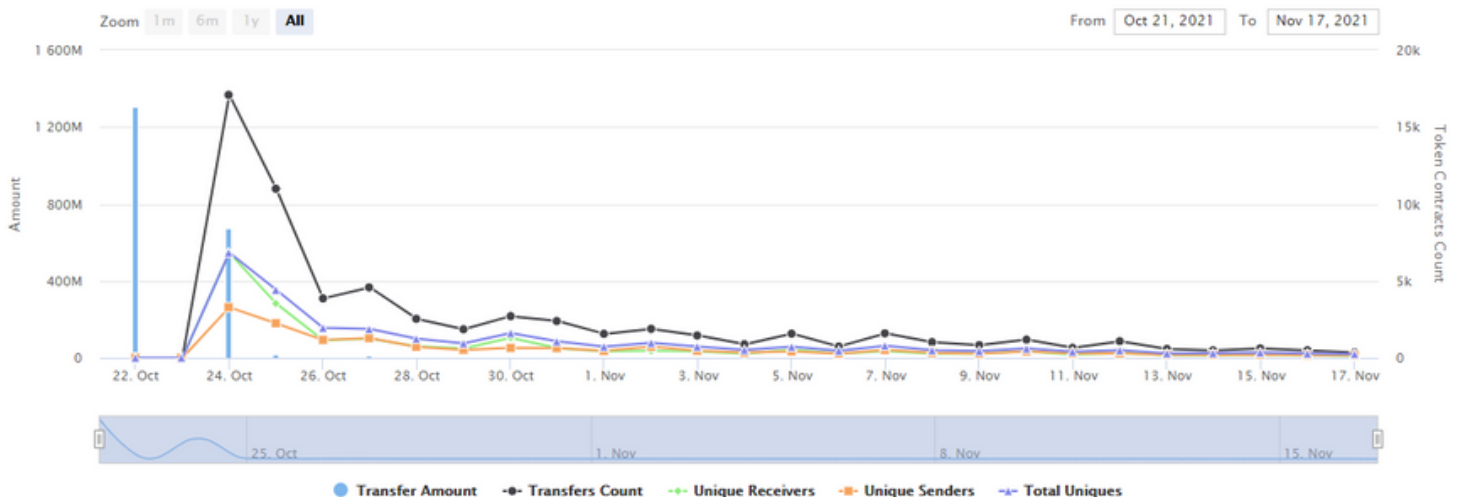
(A total of 646,726,644.65 tokens held by the top 100 accounts from the total supply of 650,000,000.00 token)

MECH MASTER TOKEN CONTRACT INTERACTION DETAILS

Time Series: Token Contract Overview

Fri 22, Oct 2021 - Wed 17, Nov 2021



















Token Contract 0xc7b7844494c516b840a7a4575ff3e60ff0f056a9 (MechMaster)
Source: BscScan.com



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TOP 10 TOKEN HOLDERS

Rank	Address	Quantity	Percentage	Value	Analytics
1	 0xdd9314d40e800877c38c43d92414d591ca48ed	623,803,893	95.9698%	\$186,143,081.67	
2	0x79275196862f7245250cbe17d9da791aba783da5	7,007,550	1.0781%	\$2,091,052.92	
3	 0xa73f10a369a1ebbf9189edf67c09521dbe5ed3a2	1,866,308.75	0.2871%	\$556,906.53	
4	 0x16080feaf6e22e9dee9a7b5193c69e674f022bc	1,838,258.6875	0.2828%	\$548,536.39	
5	 0x0e148da8b7b5fe1a78083e9461217a6e1672496f	1,445,181.0000000000000000185	0.2223%	\$431,242.01	
6	 0xa25d8a9d1add24829065894ab797fe760efef4f4	1,445,176.0000000000000000125	0.2223%	\$431,240.52	
7	 PancakeSwap V2: MECH 30	1,114,341.695835150860610273	0.1714%	\$332,519.56	
8	 0x531b644c5a5a9c08745ffcd092785d2795f6e438	953,713.947839989999999998	0.1467%	\$284,588.24	
9	0x4199470eb155eae9a2d82b38d4d9a520e3661743	375,000	0.0577%	\$111,900.00	
10	 0xbe70ee0f915c38ae0c49b35df07ae426fd7e9311	345,518.75	0.0532%	\$103,102.80	

source:<https://bscscan.com/>



SECURITY ASSESSMENT

SECURITY ISSUES

✓ High Severity Issues

No high severity issues found.

✓ Medium Severity Issues

No high severity issues found.

Low Severity Issues

1. Tautology or contradiction

Contracts: Mecha.sol

Functions: collectTokenAsFee

Recommendation: remove tautologic comparison $\text{balance} \geq 0$

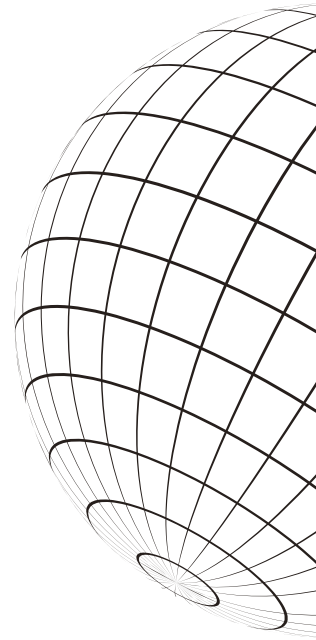
2. Boolean equality

Boolean constants can be used directly and do not need to be compared to true or false.

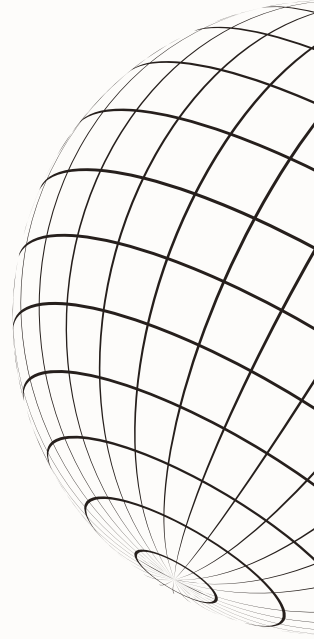
Contracts: Mecha.sol

Function: changeMechaName (line #303)

Recommendation: remove the equality to the boolean constant. Status: Fixed.



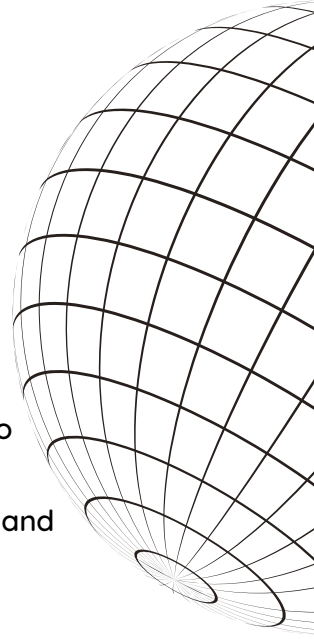
SECURITY ASSESMENT TOKEN LOGO



SECURITY ASSESMENT CONCLUSION

Smart contracts contain owner privileges!

Motech Audit 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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