MOTECH AUDIT

SMART CONTRACT SECURITY AUDIT

2021

SECURITY ASSESSMENT

MAFAGAFO TOKEN AUDIT REPORT

4 DEC 2021

SECURITY ASSESMENT

TABLE OF CONTENTS

MAFAGAFO TOKEN AUDIT REPORT

MOTECH AUDIT
SMART CONTRACT SECURITY AUDIT

SUMMARY

This report has been prepared for Mafagafo to discover issues and vulnerabilities in the source code of the Mafagafo 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 Test net 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.

MOTECH AUDIT
SMART CONTRACT SECURITY AUDIT

MOTECH AUDIT
SMART CONTRACT SECURITY AUDIT

BACKGROUND

MotechAudit was commissioned by Mafagafo to perform an audit of smart contracts:
https://bscscan.com/address/0x352631918cA5682290c841b54CE2E7fE3B73CEa0
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.

MOTECH AUDIT
SMART CONTRACT SECURITY AUDIT

AUDIT DETAILS
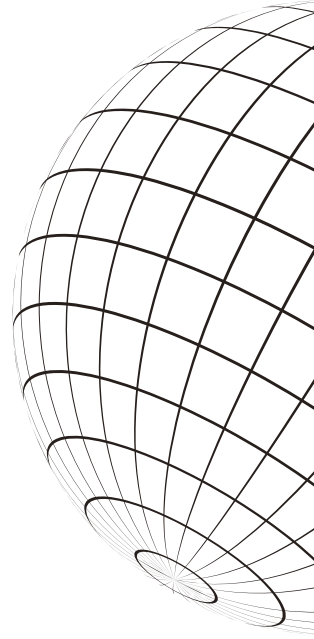
AUDITED PROJECT

Mafagafo

DEPLOYER ADDRESS

0x95cCe83F4EC3E68DaABEf3604a33e00fb097fe22

CLIENT CONTACTS:

Mafagafo Team

BLOCKCHAIN

BSC Project

WEBSITE:

https://mafagafo.com/

MOTECH AUDIT
SMART CONTRACT SECURITY AUDIT

CONTRACT DETAILS

Token contract details for Nov-21-2021
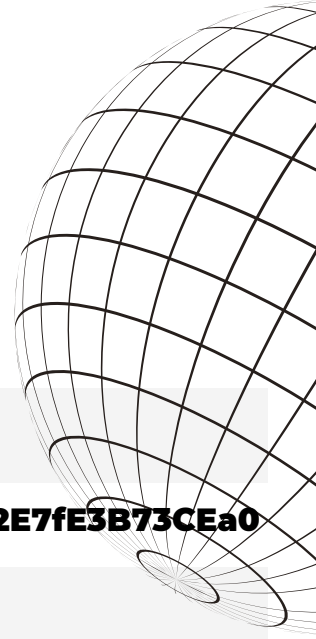
Contract name	**Mafagafo**
Contract address	**0x352631918cA5682290c841b54CE2E7fE3B73CEa0**
Total supply	**1,000,000,000 MAFA**
Token ticker	**MafaCoin (MAFA)**
Decimals	**18**
Token holders	**15,787**
Transactions count	**21,380**
Top 100 holders dominance	**97.71%**
Contract deployer address	**0xE341d141133D82Def0Ee59a3D9365fd2942Eeb63**
Contract's current owner address	**0xE341d141133D82Def0Ee59a3D9365fd2942Eeb63**

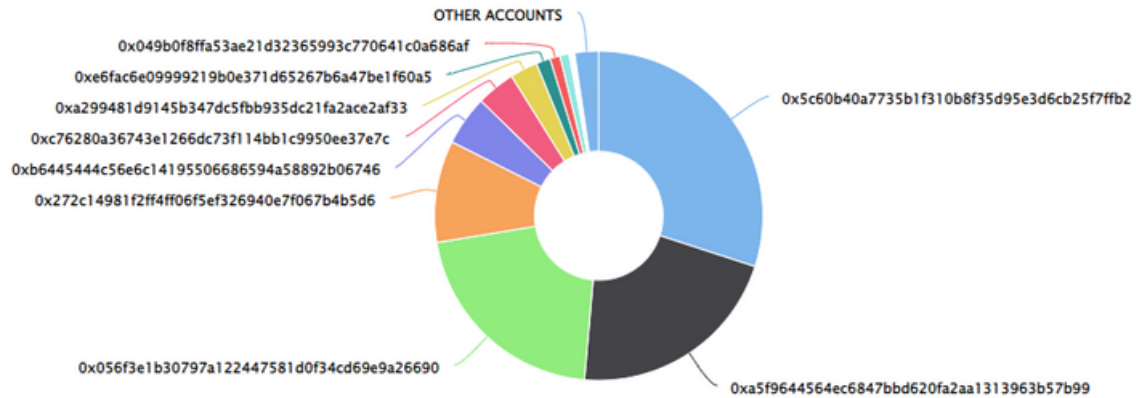MOTECH AUDIT
SMART CONTRACT SECURITY AUDIT

MAFAGAFO TOKEN DISTRIBUTION

♀ The top 100 holders collectively own 97.66% (976,598,290.19 Tokens) of MafaCoin | ♀ Token Total Supply: 1,000,000,000.00 Token | Total Token Holders: 15,792

MafaCoin Top 100 Token Holders

Source: BscScan.com

OTHER ACCOUNTS

0x049b0f8ffa53ae21d32365993c770641c0a686af
0xe6fac6e09999219b0e371d65267b6a47be1f60a5
0xa299481d9145b347dc5fbb935dc21fa2ace2af33
0xc76280a36743e1266dc73f114bb1c9950ee37e7c
0xb6445444c56e6c14195506686594a58892b06746
0x272c14981f2ff4ff06f5ef326940e7f067b4b5d6

0x5c60b40a7735b1f310b8f35d95e3d6cb25f7ffb2

0x056f3e1b30797a122447581d0f34cd69e9a26690
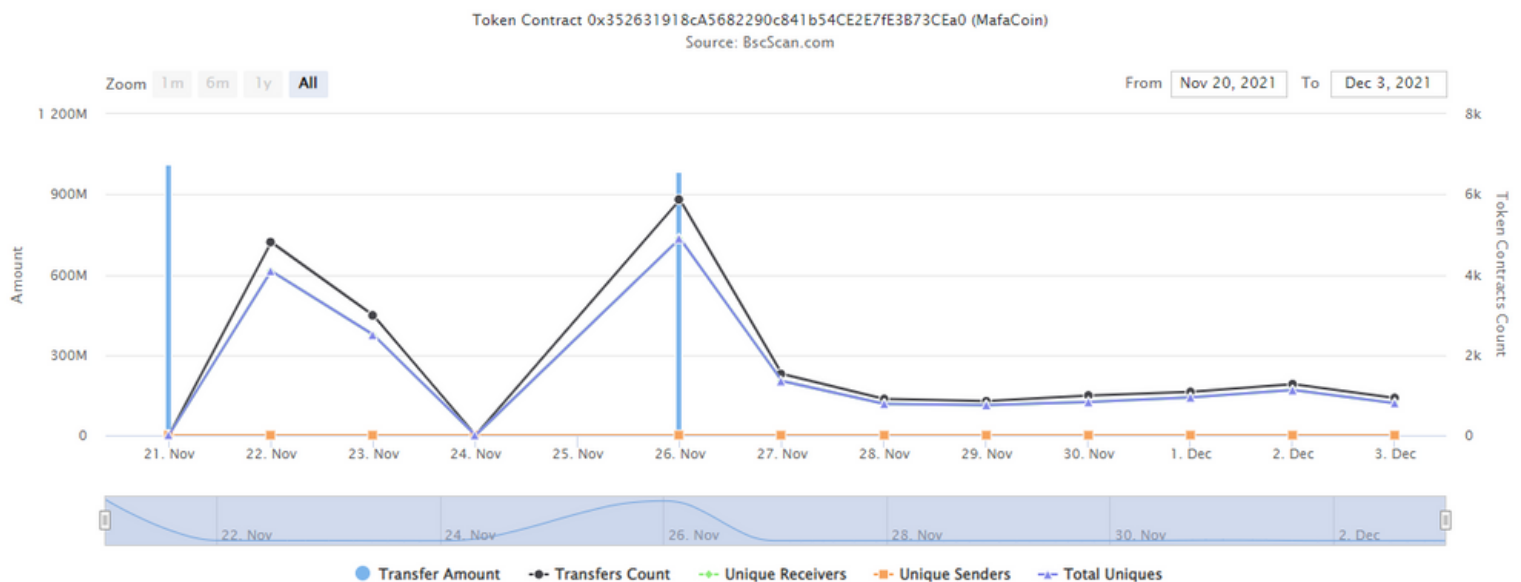
0xa5f9644564ec6847bbd620fa2aa1313963b57b99

(A total of 976,598,290.19 tokens held by the top 100 accounts from the total supply of 1,000,000,000.00 token)

MAFAGAFO TOKEN CONTRACT INTERACTION DETAILS

Time Series: Token Contract Overview   Sun 21, Nov 2021 - Fri 3, Dec 2021

Token Contract 0x352631918cA5682290c841b54CE2E7fE3873CEa0 (MafaCoin)
Source: BscScan.com

Zoom 1m 6m 1y **All**   From Nov 20, 2021   To   Dec 3, 2021

● Transfer Amount   ·●· Transfers Count   ·●· Unique Receivers   ·■· Unique Senders   ·▲· Total Uniques

MOTECH AUDIT
SMART CONTRACT SECURITY AUDIT

TOP 10 TOKEN HOLDERS

Rank	Address	Quantity	Percentage	Analytics
1	0x5c60b40a7735b1f310b8f35d95e3d6cb25f7ffb2	300,000,000	30.0000%	📈
2	0xa5f9644564ec6847bbd620fa2aa1313963b57b99	214,000,000	21.4000%	📈
3	0x056f3e1b30797a122447581d0f34cd69e9a26690	210,000,000	21.0000%	📈
4	0x272c14981f2ff4ff06f5ef326940e7f067b4b5d6	100,000,000	10.0000%	📈
5	0xb6445444c56e6c14195506686594a58892b06746	49,000,000	4.9000%	📈
6	0xc76280a36743e1266dc73f114bb1c9950ee37e7c	38,000,000	3.8000%	📈
7	0xa299481d9145b347dc5fbb935dc21fa2ace2af33	27,000,000	2.7000%	📈
8	0xe6fac6e09999219b0e371d65267b6a47be1f60a5	14,000,000	1.4000%	📈
9	0x049b0f8ffa53ae21d32365993c770641c0a686af	10,000,000	1.0000%	📈
10	0xefff120bfae1a530da9a9c42606423f053f4eb40	9,101,410.837559601910494737	0.9101%	📈

source:https://bscscan.com/

MOTECH AUDIT
SMART CONTRACT SECURITY AUDIT

SECURITY ISSUES

✅ High Severity Issues

No high severity issues found.

✅ Medium Severity Issues

No high severity issues found.

⚠️ Low Severity Issues

1. Missing event for changing liquidityFee, burnFee, teamBuyFee, teamSellFee, lotteryFee

Contracts: Mafacoin.sol

Functions: setLiquidyFee, setBurnFee, setTeamBuyFee, setTeamSellFee, setLotteryFee Changing critical values should be followed by the event emitting for better tracking off-chain.

 Recommendation: Please emit events on the critical values changing.

2. State variables that could be declared constant Constant state variables should be declared constant to save gas.

Contracts: Mafacoin.sol

Variables: deadAddress, tSupply

Recommendation: Add the constant attributes to state variables that never change.

3. A public function that could be declared external. public functions that are never called by the contract should be declared external to save gas.

Contracts: TimeLockedWallet.sol, Mafacoin.sol

Functions: withdraw, info, setAutomatedMarketMakerPair

Recommendation: Use the external attribute for functions never called from the contract.
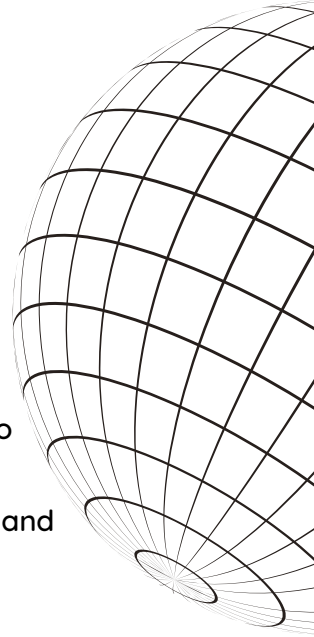
MOTECH AUDIT
SMART CONTRACT SECURITY AUDIT

MAFAGAFO TOKEN AUDIT REPORT
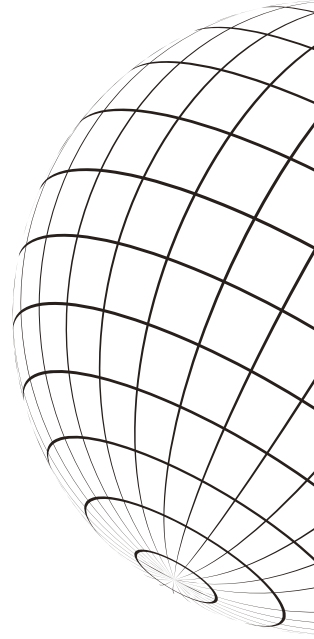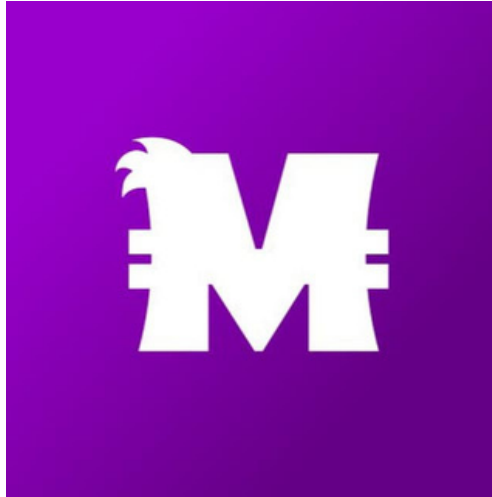
MOTECH AUDIT

SMART CONTRACT SECURITY AUDIT

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.

MOTECH AUDIT
SMART CONTRACT SECURITY AUDIT