

## SAFEMOON PROGRESS REPORT

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### **SUMMARY**

This report has been prepared for SafeMoon to discover issues and vulnerabilities in the source code of the SafeMoon 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 add ressing 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;
- •Provide more comments per each function for readability, especially contracts that are verified inpublic:
- •Provide more transparency on privileged activities once the protocol is live.



## **BACKGROUND**

MotechAudit was commissioned by SafeMoon to perform an audit of smart contracts: https://bscscan.com/address/0x8076c74c5e3f5852037f31ff0093eeb8c8add8d3
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.



## **AUDIT DETAILS**



#### **AUDITED PROJECT**

SafeMoon



#### **DEPLOYER ADDRESS**

0xC95063D946242f26074A76C8A2E94c9D735dfc78



#### **CLIENT CONTACTS:**

SafeMoon team



#### **BLOCKCHAIN**

**BSC Project** 



#### **WEBSITE:**

https://safemoon.net/



### **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.



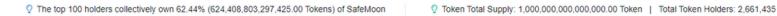
## **CONTRACT DETAILS**

## Token contract details for Feb-13-2021

Contract name	SafeMoon
Contract address	0x8076c74c5e3f5852037f31ff0093eeb8c8add8d3
Total supply	1,000,000,000,000
Token ticker	SafeMoon (SAFEMOON)
Decimals	9
Token holders	2,661,389
Transactions count	9,233,213
Top 100 holders dominance	60.7877%
Contract deployer address	0xC95063D946242f26074A76C8A2E94c9D735dfc78
Contract's current owner addres	ss 0x8076c74c5e3f5852037f31ff0093eeb8c8add8d3



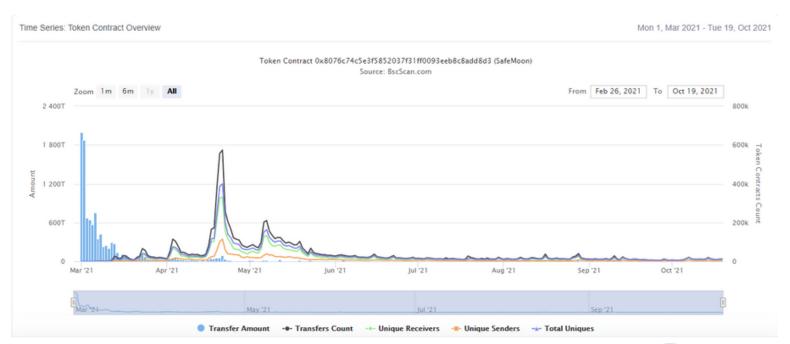
## **SAFEMOON TOKEN DISTRIBUTION**





(A total of 624,408,803,297,425.00 tokens held by the top 100 accounts from the total supply of 1,000,000,000,000,000,000 token)

## SAFEMOON TOKEN CONTRACT INTERACTION DETAILS





## **TOP 10 TOKEN HOLDERS**

Rank	Address	Quantity	Percentage	Value	Analytics
1	0x0000000000000000000000000000000000000	426,238,249,954,022.463055699	42.6238%	\$839,689,352.41	<u>~</u>
2	0x8c128dba2cb66399341aa877315be1054be75da8	32,648,764,883,776.11475819	3.2649%	\$64,318,066.82	<u>~</u>
3	■ 0xa8736b9585a01d6dcc1b6e2fc9dc208552c34b58	20,000,000,001,566.132214712	2.0000%	\$39,400,000.00	<u>~</u>
4	■ 0xff3dd404afba451328de089424c74685bf0a43c9	17,164,726,194,821.182448519	1.7165%	\$33,814,510.60	<u>~</u>
5	■ PancakeSwap: SAFEMOON	14,692,717,199,959.364273807	1.4693%	\$28,944,652.88	<u>~</u>
6	0xcd198be08a33cbe2172f3be45cdb431e060076bc	12,334,012,988,305.434471668	1.2334%	\$24,298,005.59	<u>~</u>
7	0x86b695aaa2600668cec754c7827357626b188054	10,384,544,862,459.552553901	1.0385%	\$20,457,553.38	<u>~</u>
8	0xdbe831064ae9b8646de09f270eef3f0076ce9def	7,448,069,389,255.380598859	0.7448%	\$14,672,696.70	<u>~</u>
9	0x82b7503bffd8aea31aea5ee14fb01959191af45b	4,760,668,903,227.441876097	0.4761%	\$9,378,517.74	<u>~*</u>
10	0xf55808ac8291551ed8faf5674449238dff44c041	4,442,293,795,632.486803767	0.4442%	\$8,751,318.78	<u> ~"</u>

source:https://bscscan.com/



## **ISSUES CHECKING STATUS**

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-fu	nction race conditions. Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	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. The impact of the exchange rate on the lo	gic. Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implemente	ation and usage. Passed
21. Fallback function security.	Passed



## **SECURITY ISSUES**

No high severity issues found.	
✓ Medium Severity Issues	
No medium severity issues found.	
○ Low Severity Issues	
No low severity issues found.	

Owner privileges (In the period when the owner is not renounced)

• Issuer can mint any amount of tokens.

• Issuer can burn.

• Owner can edit issuers.



## **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.

