# Reflection Community Token
# Smart Contracts Audit

SMCAuditors

https://smcauditors.com / info@smcauditors.com

6th of May 2021

*This document is the audit of Reflection Community Token smart contract performed by SMCAuditors.*

# 1. Executive Summary

This report was written to provide a security audit for Reflection Community Token (https://reflectioncommunity.me) smart contract. Reflection Community Token is a deflationary token with a burning function. SMCAuditors conducted the audit focusing on whether Reflection Community Token smart contract is designed and implemented without any security vulnerabilities. The contract is listed below with its link.

- reflection-community-token.sol
    - https://github.com/reflectioncommunity/token/blob/main/reflection-community-token.sol

Reflection Community Token team requested rigorous review of their code. We have run extensive static analysis of the codebase as well as standard security assessment

utilising industry approved tools. There are no critical/high level issues with the currently deployed token contract. Our low level findings are available in the next section.

## 2. Audit Findings

reflection-community-token.sol

Low Level Findings

- ❖ Owner can change the tax and burn fee. Owner can change the *communityAddress*. Consider giving less privileges to the owner. Consider renouncing ownership.
    - ➢ Team's Response: we may need to change the numbers according to need. We hardcoded communityAddress and removed address change function according to your comment. Ownership will be renounced after deployment.

- ❖ *includeInReward()* and *_getCurrentSupply* functions uses a loop to find and remove addresses from the _excluded list. Function will be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list. You can use *EnumerableSet* instead of array or not use long arrays.
    - ➢ Team's Response: we won't use long arrays.

## 3. Conclusion

In this audit, we thoroughly analyzed the Reflection Community Token smart contract. Our identified issues are promptly confirmed, taken into consideration and resolved accordingly.

## 4. Disclaimer

This report is not advice on investment, nor does it guarantee adequacy of a business model and/or a bug-free code. This report should be used only to discuss known technical problems. It will be necessary to resolve addressed issues and conduct thorough tests to ensure the safety of the smart contract.