



Martis Finance

Smart Contract Security Audit

April, 2021
[TechRate](#)

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.

Background

TechRate was commissioned by Martis Finance to perform an audit of smart contracts:

- <https://bscscan.com/address/0xdd655D9c3865151BCAfb66A2A5442c9329852184#code>
- <https://bscscan.com/address/0x7d685794135572Fb2eF00baDC1A024Eee7dEA726#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 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.

Issues Checking Status

№	Issue description.	Checking status
1	Compiler warnings.	Passed
2	Race conditions and Reentrancy. Cross-function 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.	Low issues
10	Methods execution permissions.	Passed
11	Economy model.	Passed
12	The impact of the exchange rate on the logic.	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.	High issues
19	Cross-function race conditions.	Passed
20	Safe Zeppelin module.	Passed
21	Fallback function security.	Passed

Security Issues

High Severity Issues

1. Burn from any account

Issue:

Owner can burn tokens from any account in [Martis token](#) contract and in [Space Martis token](#) contract.

Recommendation:

Please call internal `_burnFrom` function instead of `_burn`.

Medium Severity Issues

1. No delegates move

Issue:

There are no delegates move in [Space Martis token](#) contract after burn and mint, but the contract's logic is the same with [goose contracts](#).

Recommendation:

Check the logic of the contract and add delegates moving.

Low Severity Issues

No low severity issues.

Owner privileges

- ❑ Minters can mint until max supply in [Martis token](#) contract and in [Space Martis token](#) contract.
- ❑ Owner can add / remove minters in [Martis token](#) contract and in [Space Martis token](#) contract.

Conclusion

Smart contracts contain high severity issues!

Techrate 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.