



PolyMooToken Smart Contract Security Audit

TechRate
July, 2021

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 PolyMooToken to perform an audit of smart contract:

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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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Issues Checking Status

Is	ssue description	Checking status
1. C	Compiler errors.	Passed
	ace conditions and Reentrancy. Cross-function race onditions.	Passed
3. P	ossible delays in data delivery.	Passed
4. O	Pracle calls.	Passed
5. F	ront running.	Passed
6. Ti	imestamp dependence.	Passed
7. In	nteger Overflow and Underflow.	Passed
8. D	oS with Revert.	Passed
9. D	oS with block gas limit.	Low issues
10. M	Methods execution permissions.	Passed
11. E	conomy model of the contract.	Passed
12. TI	he impact of the exchange rate on the logic.	Passed
13. P	rivate user data leaks.	Passed
14. M	falicious Event log.	Passed
15. S	coping and Declarations.	Passed
16. U	Ininitialized storage pointers.	Passed
17. A	rithmetic accuracy.	Passed
18. D	esign Logic.	Passed
19. C	cross-function race conditions.	Passed
	afe Open Zeppelin contracts implementation and sage.	Passed
21. F	allback function security.	Passed

Security Issues

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

Low Severity Issues

1. Block gas limit

Issue:

add(uint256 _allocPoint, ...), set(uint256 _pid, ...) and updateEmissionRate() could invoke massUpdatePools() function, that can fail due to block gas limit if the pool size is too big.

2 add function issue

Issue:

If some LP token is added to the contract twice using function add, then the total amount of reward in function updatePool will be incorrect.

Recommendation:

Add the mapping from address to bool and check that same address will not be added twice.

Conclusion

Smart contracts contain low 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.



