



YAYO Coin Smart Contract Security Audit

<u>TechRate</u>

June, 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 YAYO Coin to perform an audit of smart contracts:

https://explorer-

mainnet.maticvigil.com/address/0xf7058856f405542cd660e8ce475 1248F2d037f2B/contracts

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.

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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

Iss	ue description	Checking status
1. Co	mpiler errors.	Passed
	ce conditions and Reentrancy. Cross-function race	Passed
3. Pos	ssible delays in data delivery.	Passed
4. Ora	acle calls.	Passed
5. Fro	ont running.	Passed
6. Tim	nestamp dependence.	Passed
7. Inte	eger Overflow and Underflow.	Passed
8. Do	S with Revert.	Passed
9. Do	S with block gas limit.	Low issues
10. Me	thods execution permissions.	Passed
11. Ecc	onomy model of the contract.	Passed
12. The	e impact of the exchange rate on the logic.	Passed
13. Pri	vate user data leaks.	Passed
14. M a	licious Event log.	Passed
15. Sco	oping and Declarations.	Passed
16. Uni	initialized storage pointers.	Passed
17. Ari	thmetic accuracy.	Passed
18. De:	sign Logic.	Passed
19. Cro	oss-function race conditions.	Passed
	fe Open Zeppelin contracts implementation and age.	Passed
21. Fal	lback function security.	Passed

Security Issues

No high severity issues found.

No medium severity issues found.

- Low Severity Issues
 - 1. Out of gas

Issue:

- The function includeInAccount() uses the 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.
- The function _getCurrentSupply also uses the loop for evaluating total supply. It also could be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

Recommendation:

Check that the excluded array length is not too big.

Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details provided by the team: https://app.unicrypt.network/amm/quickswapv1/pair/0x16590b707b27Cee5b1140A07b0679c85E6538395

Ownership renounce details provided by the team:

https://explorer-

mainnet.maticvigil.com/tx/0x798b1feed83e85872c3bba4533a12503 ad1a4067d787ec574f75aad5c066ddd6/internal-transactions

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.

