

Xolo Protocol Smart Contract Security Audit

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 Xolo Protocol to perform an audit of smart contracts:

- <u>https://github.com/xolofinance/xolo-protocol/blob/396bbe3c0e842d04c82eae1</u> <u>e724e955e2738b2f4/contracts/Unitroller.sol</u>
- <u>https://github.com/xolofinance/xolo-protocol/blob/396bbe3c0e842d04c82eae1</u> e724e955e2738b2f4/contracts/Comptroller.sol
- <u>https://github.com/xolofinance/xolo-protocol/blob/396bbe3c0e842d04c82eae1</u> <u>e724e955e2738b2f4/contracts/JumpRateModelV2.sol</u>
- https://github.com/xolofinance/xolo-protocol/blob/396bbe3c0e842d04c82eae1
 e724e955e2738b2f4/contracts/CToken.sol
- <u>https://github.com/xolofinance/xolo-protocol/blob/396bbe3c0e842d04c82eae1</u> e724e955e2738b2f4/contracts/CErc20Delegate.sol

Deployed contracts:

- https://bscscan.com/address/0x863cfbD3979389abB1F738FD107Ff3FFc5049 22d#code
- https://bscscan.com/address/0xb9fd72dF342c86f59d3C91004F0F9419c8Ef84
 D5
- https://bscscan.com/address/0x823723EdabBA9C6200895eCb9Ffbd906C188
 b421#code
- <u>https://bscscan.com/address/0x15E052603A33031cFbB41135D561e492ac16</u> 96A7
- https://bscscan.com/address/0x2c0afa972F88219Cae4bA8580EBb1ac1B14B
 5928#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

Nº	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.	Passed
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.	Passed
19	Cross-function race conditions.	Passed
20	Safe Zeppelin module.	Passed
21	Fallback function security.	Passed

Security Issues

High Severity Issues

No high severity issues.

Medium Severity Issues

No medium severity issues.

Low Severity Issues

No low severity issues.

Recommendations

- ☐ TODO comments left and could be removed.
- ☐ Use the BEP20 standard everywhere instead of ERC20.

Conclusion

Smart contracts contain only recommendations! Audited all the files on GitHub and their implementation of deployed contracts.

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.