<u>TechRate</u> April, 2023

• TECH • RATE

SMART CONTRACTS SECURITY AUDIT REPORT



Audit Details



Audited project

Gems100x



Deployer address

0xA035Dcb09a6Fac97C6cC1df5c9A917b52f628f9B



Client contacts:





Blockchain

Ethereum



Project website:

https://www.100xgems.co



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 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 Gems100x to perform an audit of smart contracts:

https://etherscan.io/address/0x62aa9b2830cb02dc6951c3cc3a35035df0b77432#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 Passed 1. **Compiler errors.** Race conditions and Reentrancy. Cross-function race 2. Passed conditions. 3. Possible delays in data delivery. Passed **Oracle calls.** 4. Passed Passed 5. Front running. 6. **Timestamp dependence.** Passed 7. Integer Overflow and Underflow. Passed **DoS with Revert.** Passed 8. DoS with block gas limit. Passed 9. 10. Methods execution permissions. Passed 11. Economy model of the contract. Passed The impact of the exchange rate on the logic. Passed 12. 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 Open Zeppelin contracts implementation and Passed usage. 21. Fallback function security. Passed

Security Issues

⊘ High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

⊘ Low Severity Issues

No low severity issues found.

Notes:

- Gems100x.rescueERC20(address,uint256 ignores return value by IERC20(tokenAddress).transfer(owner(),amount).
- Gems100x.addLiquidity(uint256,uint256) ignores return value by router.addLiquidityETH{value: bnbAmount}(address(this),tokenAmount,0,0,devWallet,block.timestam p).
- Updateing marketingWallet, devWallet, router and pair lacks a zerocheck.

Owner privileges (In the period when the owner is not renounced)

- Owner can enable/disable swap.
- Owner can change swapThreshold.
- Owner can enable trading.
- Owner can switch whale tax.
- Owner can change taxes.
- Owner can change marketingWallet, devWallet, router and pair addresses.
- Owner can mark addresses as bots.
- Owner can exclude from the fees.
- Owner can change maxTxAmount and maxWalletAmount.
- Owner can manually swap and send balance to marketing and dev addresses.
- Owner can withdraw ERC20 and native tokens.



Testnet deployment

Contracts Description Table

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Gems100x	Implementation	ERC20, Ownable		
L	<u>transfer</u>	External 📘		onlyOwner
L	enableTrading	External		onlyOwner
L	<u>updateMarketingWallet</u>	External		onlyOwner
L	<u>updateDevWallet</u>	External		onlyOwner
L	<u>setIsBot</u>	External		onlyOwner
L	<u>updateExcludedFromFees</u>	External		onlyOwner
L	<u>updateMaxTxAmount</u>	External		onlyOwner
L	<u>updateMaxWalletAmount</u>	External		onlyOwner

Legend

Symbol	Meaning
	Function can modify state
	Function is payable



Conclusion

Smart contracts do not contain high severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details are provided by the team: <u>https://app.uncx.network/amm/uni-</u> v2/pair/0xaabce8520f605431057f7299b483120de751db9d

Security score: 83.

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.

