

ALTERAND



AUDIT REPORT

2023

Security Assessment
Alterand

July 13, 2023
Audit Status: Pass

   @alterandchain

Project Overview

Token Summary

Parameter	Result
Address	0x8b1FbfD453Ede87914CAE9999486406669980281
Name	Alterand
Ticker	ALTER
Decimals	9
Supply	1,000,000,000
Platform	Binance Smart Chain
Deployer	0x91a7d6edfd609fc3606c34da48dd4eb51f5e6836
Compiler	v0.6.12+commit.27d51765
Contract Name	AlterandToken
Optimization	Yes with 200 runs
License Type	MIT
Language	Solidity
Code Base	https://bscscan.com/address/0x8b1FbfD453Ede87914CAE9999486406669980281#code

Risk Analysis

Classifications of Manual Risk Results

Classification	Description
● Critical	Danger or Potential Problems
● Major	Be Careful
● Minor	Pass, Not-Detected or Sale Item
● Informational	Function Detected

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 we were identified.

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.

Manual Code Review Risk Results

Contract Privilege	Description
● Can Mint?	Passed
● Edit taxes over 25%?	Passed
● Max TX?	Passed
● Max Wallet?	Passed
● Has to enable trading?	Passed
● Modify Tax?	Passed
● Can Blacklist?	Passed
● Is Honeypot?	Passed
● Trading Cool down?	Passed
● Can Pause Trade?	Passed
● Pause Transfer?	Passed
● Is Proxy?	Passed
● Is Anti Whale?	Passed
● Is Anta Bot?	Passed
● Is Blacklist?	Passed
● Blacklist Check	Passed
● Is Whitelist?	Passed
● Buy Tax	0
● Sell Tax	0
● Can Take Ownership?	Passed
● Hidden Owner?	Passed
● Owner	0x91a7d6edfd609fc3606c34da48dd4eb51f5e6836
● Self-Destruct?	Not Detected
● Holders	100
● Audit Confidence	Medium
● Other?	Not Detected

Assessment Summary

This report has been prepared for Alterand Token on the Binance Smart Chain network. Alterand provides both client-centered and user-centered examination of the smart contracts and their current status when applicable. This report represents the security assessment made to find issues and vulnerabilities on the source code along with the current liquidity and token holder statistics of the protocol.

A comprehensive examination has been performed, utilizing Cross Referencing, Static Analysis, In-House Security Tools, and line-by-line Manual Review.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Inspecting liquidity and holders statistics to inform the current status to both users and client when applicable.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Verifying contract functions that allow trusted and/or untrusted actors to mint, lock, pause, and transfer assets.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Issues Checking Status

Issue Description	Checking Status
Compiler errors.	Passed
Race conditions and Reentrancy.	Passed
Possible delays in data delivery.	Passed
Oracle calls.	Passed
Front running.	Passed
Timestamp dependence.	Passed
Integer Overflow and Underflow.	Passed
DoS with revert.	Passed
DoS with block gas limit.	Passed
Methods execution permissions.	Passed
Economy model of the contract.	Passed
The impact of the exchange rate on the logic.	Passed
Private user data leaks.	Passed
Malicious Event log.	Passed
Scoping and Declarations.	Passed
Uninitialized storage pointers.	Passed
Arithmetic accuracy.	Passed
Design Logic.	Passed
Cross-function race conditions.	Passed
Safe Open Zeppelin contracts implementation and usage.	Passed
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.

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.

Social & Links

Website: <https://alterand.com>

Twitter: <https://twitter.com/alterandchain>

Telegram: <https://t.me/alterandchain>

Discord: N/A at the time of audit.

Github: <https://github.com/alterandchain>

Facebook: <https://facebook.com/alterandchain>

Youtube: N/A at the time of audit.

Instagram: N/A at the time of audit.

Reddit: N/A at the time of audit.

TikTok: <https://www.tiktok.com/@alterandchain>

Logo



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.