

# AUDIT



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DATE

25 AUGUST 2023

## Project Summary:

Client:

SPECTRUM

Spectrum is a decentralized project that aims to build a web3 marketplace for Dapps and Bots.

## We Developed The Following Smart Contracts for StaticAnalysis and DynamicAnalysis:

SPECTRUM (SPEC): Not Deployed Yet

## 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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## Audit Process:

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.

This document details Sky Pegasus LLC' findings and recommended solutions. Our audit was performed in the weeks leading up to August 25, 2023. The contract we audited has already been deployed.

## Static Analysis + Dynamic Analysis

Static analysis examines code to identify issues within the logic and techniques. This type of analysis addresses weaknesses in source code that might lead to vulnerabilities. Static analysis supports Development operations by creating an automated feedback loop. Static review can lead to false positives/negatives which Sky Pegasus confirms or denies with penetration testing. Static analysis is being used on Monkeys Token because it specifically identifies defects before you run a program (e.g, between coding and unit testing).

Dynamic analysis finds vulnerabilities in a runtime environment. Automated tools analyze the input and output of an application for potential threats like SQL injection. Tools can also search for other application-specific issues and analyze server configuration errors. The purpose of dynamic analysis is to analyze the program as an attacker would, looking for entry points and vulnerable sections during program execution. Hence, we create a well written suite of manual ran unit and regression tests.

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# AUDIT



NO.	Audit Items	Audit Subclass	Result
1	Overflow Audit	N/A	Passed
2	Short Address Attack Audit	N/A	Passed
3	Visibility & Delegate Call	N/A	Passed
4	Compliance audit	N/A	Passed
5	Authority Control	Ownership, Permission Audit	Passed
6	Gas Limit & Loops Audit	N/A	Passed
7	DoS with Unexpected Throw and Block Gas Limit Audit	N/A	Passed
8	Tax Mechanism	N/A	Passed
9	Transfer Forwards All Gas	N/A	Passed
10	Malicious Event Log audit	N/A	Passed
11	Vulnerability Audit *	N/A	Passed
12	Contract's Dependencies Audit	N/A	Passed
13	Arithmetic Accuracy Deviation Audit	N/A	Passed
14	Outdated Compiler Version	N/A	Passed
15	Reentrancy Audit	N/A	Passed
16	Safe Design Audit	Hard-coded Version	Passed
		Fallback Function Safeuse	Passed
		Show Coding Security Function	Passed
		Return Value Security Call Function	Passed

\* Vulnerability Audity  
"Transfer, Balance, Tax, Add Liquidity, Airdrop"

# AUDIT



NO.	Audit Items	Audit Subclass	Result
17	Whitelisting & Blacklisting	N/A	Passed
18	Trading Stop & Start	N/A	Passed
19	Anti-Bot Measures	N/A	Passed

# AUDIT



File	%Stmts	%Branch	%Funcs	%Lines
SPECTRUM	100	100	100	100

## High Severity Issues

No High Severity Issues were found.

## Moderate Severity Issues

No Moderate Severity Issues were found.

## Low Severity Issues

No Low Severity Issues were found.

## Conclusion

No issues were found.

Based on the assessment, the smart contract code has been deemed to be highly secure. It has been written with great attention to detail, with all necessary validations and security measures carefully implemented. The code is performing very well, and there are no identified vulnerabilities that could allow unauthorized access to the contract's funds.

In addition, the code's performance and overall quality are excellent. The smart contract includes all the necessary validations, which have been tested and confirmed to be working as intended. This comprehensive approach to security and quality assurance ensures that the smart contract can be relied upon to function smoothly and securely, providing peace of mind for all parties involved.

## Sky Pegasus LLC note:

Please check the disclaimer above and note - the report is provided 'as-is' and makes no statements or warranties whatsoever. The report is provided only for the contract mentioned in the report.