

SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT



Customer: Street Runner

Date: December 07th, 2021



This document may contain confidential information about IT systems and the intellectual property of the Customer as well as information about potential vulnerabilities and methods of their exploitation.

The report containing confidential information can be used internally by the Customer, or it can be disclosed publicly after all vulnerabilities are fixed — upon a decision of the Customer.

Document

Name	Smart Contract Code Review and Security Analysis Report for Street Runner.	
Approved by	Andrew Matiukhin CTO Hacken OU	
Туре	BEP20 token	
Platform	Binance Smart Chain / Solidity	
Methods	Architecture Review, Functional Testing, Computer-Aided Verification, Manual Review	
Deployed	https://bscscan.com/tx/0xb0d2a19509e05e76d4068953a46aab161c2186	
contract	3637ba55b6cf578442be9bbfe2	
Technical	NO	
Documentation		
JS tests	NO	
Website	streetrunner.site	
Changelog	07 DECEMBER 2021 - INITIAL AUDIT	





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Introduction

Hacken OÜ (Consultant) was contracted by Cornucopias (Customer) to conduct a Smart Contract Code Review and Security Analysis. This report presents the findings of the security assessment of the Customer's smart contract and its code review conducted on December $7^{\rm th}$, 2021.

Scope

The scope of the project is smart contracts in the blockchain network:

URL:

https://bscscan.com/tx/0xb0d2a19509e05e76d4068953a46aab161c21863637ba55b6cf 578442be9bbfe2

Technical Documentation: No

JS tests: No Contracts:
LERC20

We have scanned this smart contract for commonly known and more specific vulnerabilities. Here are some of the commonly known vulnerabilities that are considered:

Category	Check Item
Code review	Reentrancy
	Ownership Takeover
	Timestamp Dependence
	Gas Limit and Loops
	DoS with (Unexpected) Throw
	DoS with Block Gas Limit
	 Transaction-Ordering Dependence
	Style guide violation
	Costly Loop
	ERC20 API violation
	Unchecked external call
	Unchecked math
	Unsafe type inference
	Implicit visibility level
	Deployment Consistency
	Repository Consistency
	Data Consistency



Functional review	• B	usiness Logics Review
	• F	unctionality Checks
	• A	ccess Control & Authorization
	• E	scrow manipulation
	• T	oken Supply manipulation
	• A	ssets integrity
	• U	ser Balances manipulation
	• D	ata Consistency manipulation
	• K	ill-Switch Mechanism

Operation Trails & Event Generation

Executive Summary

According to the assessment, the Customer's smart contracts are well-secured.

Insecure	Poor secured	Secured	Well-secured
		You are here	

Our team performed an analysis of code functionality, manual audit, and automated checks with Mythril and Slither. All issues found during automated analysis were manually reviewed, and important vulnerabilities are presented in the Audit overview section. All found issues can be found in the Audit overview section.

As a result of the audit, security engineers found no issues.

Notice:

It's better to declare the "lossless" variable as public so everyone could check the controller contract.



Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution



Audit overview

■ ■ ■ Critical

No critical issues were found.

High

No high severity issues were found.

■ ■ Medium

No medium severity issues were found.

Low

No low severity issues were found.



Conclusion

Smart contracts within the scope were manually reviewed and analyzed with static analysis tools.

The audit report contains all found security vulnerabilities and other issues in the reviewed code.

As a result of the audit, security engineers found no issues.

Notice:

It's better to declare the "lossless" variable as public so everyone could check the controller contract.



Disclaimers

Hacken Disclaimer

The smart contracts given for audit have been analyzed in accordance with the best industry practices at the date of this report, in relation to cybersecurity vulnerabilities and issues in smart contract source code, the details of which are disclosed in this report (Source Code); the Source Code compilation, deployment, and functionality (performing the intended functions).

The audit makes no statements or warranties on the security of the code. It also cannot be considered as a sufficient assessment regarding the utility and safety of the code, bug-free status, or any other statements of the contract. While we have done our best in conducting the analysis and producing this report, it is important to note that you should not rely on this report only — we recommend proceeding with several independent audits and a public bug bounty program to ensure the security of smart contracts.

Technical Disclaimer

Smart contracts are deployed and executed on a blockchain platform. The platform, its programming language, and other software related to the smart contract can have vulnerabilities that can lead to hacks. Thus, the audit can't guarantee the explicit security of the audited smart contracts.