

# Sport Token AUDIT REPORT

Version 1.0.0

Serial No. 2022041100042018

Presented by Fairyproof

April 11, 2022

#### 01. Introduction

This document includes the results of the audit performed by the Fairyproof team on the Sport Token project.

Audit Start Time:	
April 9, 2022	
Audit End Time:	
April 11, 2022	
Token's Standard:	
ERC-20	
Token's Name:	
Sport	
Token's Symbol:	
SPORT	
Token's Precision:	
18	
Token's Contract Address:	

https://polygonscan.com/address/0x503836c8c3A453c57f58CC99B070F2E78Ec14fC0#code

The goal of this audit is to review Sport's token issuance function, study potential security vulnerabilities, its general design and architecture, and uncover bugs that could compromise the software in production.

We make observations on specific areas of the code that present concrete problems, as well as general observations that traverse the entire codebase horizontally, which could improve its quality as a whole.

This audit only applies to the specified code, software or any materials supplied by the Sport team for specified versions. Whenever the code, software, materials, settings, environment etc is FAIRYPROOF changed, the comments of this audit will no longer apply.



Sport Token

Note that as of the date of publishing, the contents of this report reflect the current understanding of known security patterns and state of the art regarding system security. You agree that your access and/or use, including but not limited to any associated services, products, protocols, platforms, content, and materials, will be at your sole risk.

The review does not extend to the compiler layer, or any other areas beyond the programming language, or other programming aspects that could present security risks. If the audited source files are smart contract files, risks or issues introduced by using data feeds from off-chain sources are not extended by this review either.

Given the size of the project, the findings detailed here are not to be considered exhaustive, and further testing and audit is recommended after the issues covered are fixed.

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#### — Methodology

The above files' code was studied in detail in order to acquire a clear impression of how the its specifications were implemented. The codebase was then subject to deep analysis and scrutiny, resulting in a series of observations. The problems and their potential solutions are discussed in this document and, whenever possible, we identify common sources for such problems and comment on them as well.

The Fairyproof auditing process follows a routine series of steps:

1. Code review that includes the following

i. Review of the specifications, sources, and instructions provided to Fairyproof to make sure we understand the size, scope, and functionality of the project's source code.ii. Manual review of code, which is the process of reading source code line-by-line in an

attempt to identify potential vulnerabilities.

iii. Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to Fairyproof describe.

2. Testing and automated analysis that includes the following:

i. Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run the test cases.ii. Symbolic execution, which is analyzing a program to determine what inputs cause each part of a program to execute.

3. Best practices review, which is a review of the source code to improve maintainability, security, and control based on the established industry and academic practices,

#### Structure of the document

This report contains a list of issues and comments on all the above source files. Each issue is assigned a severity level based on the potential impact of the issue and recommendations to fix it, if applicable. For ease of navigation, an index by topic and another by severity are both provided at the beginning of the report.

#### Documentation

For this audit, we used the following source of truth about how the token issuance should work: FAIRYPROOF

Contract File's Source Code

These was considered the specification.

#### - Comments from Auditor

Serial Number	Auditor	Audit Time	Result
2022041100042018	Fairyproof Security Team	April 9, 2022 - April 11, 2022	Passed
	0 Critical		All Resolved!
0 Total Findings	0 High		All Resolved!
	0 Medium		All Resolved!
	0 Low		All Resolved!
100% RESOLVED 0 Info		✓ All Resolved!	

#### Summary:

The Fairyproof security team used its auto analysis tools and manual work to audit the project. During the audit, no issues were discovered.

# 02. About Fairyproof

Fairyproof is a leading technology firm in the blockchain industry, providing consulting and security audits for organizations. Fairyproof has developed industry security standards for designing and deploying blockchain applications.

#### PROOF 03. Major functions of audited code

The audited code mainly implements an ERC-20 token. Here are the details:

Token Name: Sport

Token Symbol: SPORT

Token Precision: 18

Max Supply: 1,250,000,000

Mint/Burn: No additional mintage, no burn

Transfer Pause/Freeze: Transfer cannot be paused or frozen.

Burn on Transaction: No

Initial Token Distribution:

- 0x36875ce5A781e639c922eb4933688cd600db834f : 337,750,000
- 0x91C1D2684A84494F14eb7B40746E93Cd5cfa41Fa: 156,000,000
- 0x1a8f92f4C6e9a4f9f1f9A77b41bd9F45FFF3C08 : 125.000.000
- 0xc7dbDf35d21ba6c0F751d93A8F730Eb278d7B982 : 156,250,000
- 0x40199425897a769C620553AE961915CcB23308e6 : 312,500,000
- 0xA4d37c4ccbcC4270d87c164392E464150A5542DE : 6,250,000
- 0x8E6C33c40A74FaCc58DA2392b44B8DeB4Ff71167 : 125,000,000
- 0xDd6077Dc881b100A76b07bbCfc2439d9CC07E44A : 31,250,000

### FAIRYPROOF 04. Coverage of issues

The issues that the Fairyproof team covered when conducting the audit include but are not FAIRYPROOF limited to the following ones:

- Re-entrancy Attack
- Replay Attack
- Reordering Attack
- Miner's Advantage
- Rollback Attack

- DDos Attack
- Transaction Ordering Attack
- Race Condition
- Access Control
- Integer Overflow/Underflow
- Timestamp Attack
- Gas Consumption
- Inappropriate Callback Function
- Function Visibility
- Implementation Vulnerability
- Uninitialized Storage Pointer
- Arithmetic Precision
- Tx.origin
- Fake Deposit
- Shadow Variable
- Design Vulnerability
- Token Issurance
- Admin Rights
- Inappropriate Proxy Design
- Inappropriate Use of Slots
- Asset Security
- Contract Upgrade/Migration
- Code Improvement
- Misc

#### **05. Severity level reference**

Every issue in this report was assigned a severity level from the following:

**Critical** severity issues need to be fixed as soon as possible.

High severity issues will probably bring problems and should be fixed.

**Medium** severity issues could potentially bring problems and should eventually be fixed.

Low severity issues are minor details and warnings that can remain unfixed but would be better fixed at some point in the future.

**Informational** is not an issue or risk but a suggestion for code improvement.

#### 06. Major areas that need attention

Based on the provided source code the Fairyproof team focused on the possible issues and risks related to the following functions or areas.

#### - Integer Overflow/Underflow

We checked all the code sections, which had arithmetic operations and might introduce integer overflow or underflow if no safe libraries were used. All of them used safe libraries.

We didn't find issues or risks in these functions or areas at the time of writing.

#### - Access Control

We checked each of the functions that could modify a state, especially those functions that could only be accessed by "owner".

We didn't find issues or risks in these functions or areas at the time of writing.

#### - Token Issurance

We checked whether or not the contract files could mint tokens at will.

We didn't find issues or risks in these functions or areas at the time of writing.

#### - State Update

We checked some key state variables which should only be set at initialization.

We didn't find issues or risks in these functions or areas at the time of writing.

#### - Asset Security

We checked whether or not all the functions that transfer assets were safely handled.

We didn't find issues or risks in these functions or areas at the time of writing.

#### - Miscellaneous

We didn't find issues or risks in other functions or areas at the time of writing.

#### 07. List of issues by severity

# 08. Issue descriptions

- N/A

-N/A ROOF

# 09. Recommendations to enhance the overall security

We list some recommendations in this section. They are not mandatory but will enhance the overall security of the system if they are adopted.

- N/A



