

# Smart Contract Security Assessment

Final Report

# For Space Misfits (Space Crown Token)

04 December 2021





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The audit report has made all reasonable attempts to provide clear and articulate recommendations to the Project team with respect to the rectification, amendment and/or revision of any highlighted issues, vulnerabilities or exploits within the contracts provided. It is the sole responsibility of the Project team to sufficiently test and perform checks, ensuring that the contracts are functioning as intended, specifically that the functions therein contained within said contracts have the desired intended effects, functionalities and outcomes of the Project team.

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# 1 Overview

This report has been prepared for Space Misfits's Space Crown token contract on the Harmony One network. Paladin provides a user-centred examination of the smart contracts to look for vulnerabilities, logic errors or other issues from both an internal and external perspective.

#### 1.1 Summary

Project Name	Space Misfits (Space Crown token)
URL	https://spacemisfits.com/
Platform	Harmony One
Language	Solidity

#### 1.2 Contracts Assessed

Name	Contract	Live Code Match
SpaceCrownToken	https://github.com/DogiraOfficial/SM-CrownToken	

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# **1.3** Findings Summary

Severity	Found	Resolved	Partially Resolved	Acknowledged (no change made)
High	0	-	-	-
Medium	0	-	-	-
Low	0	-	-	-
Informational	2	2	-	-
Total	2	2	-	-

#### Classification of Issues

Severity	Description
High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency.
Medium	Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.
Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
Informational	Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.

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### 1.3.1 SpaceCrownToken

ID	Severity	Summary	Status
01	INFO	tSupply can be set to a constant	<b>₩</b> RESOLVED
02	INFO	tSupply has too many digits	RESOLVED

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# 2 Findings

#### 2.1 SpaceCrownToken

The SpaceCrown token is a simple ERC-20 token. It has a total supply of 200,000,000 tokens, and the total supply is minted to the deployer when the contract is deployed. After which, no more tokens can be minted.

#### 2.1.1 Token Overview

Address	TBC
Token Supply	200,000,000 (two hundred million)
Decimal Places	18
Transfer Max Size	None
Transfer Min Size	None
Transfer Fees	None

#### 2.1.2 Issues & Recommendations

Issue #01	tSupply can be set to a constant
Severity	INFORMATIONAL
Description	As tSupply is declared as a constant and never changed, it can be set to a constant.
Recommendation	Change the tSupply variable to a constant.
Resolution	★ RESOLVED  TSupply is now constant.

Issue #02	tSupply has too many digits		
Severity	INFORMATIONAL		
Location	<u>Line 8</u> uint256 public tSupply = 200000000000000000000000000000000000		
Description	Literals with many digits are difficult to read and review.		
Recommendation	Change the tSupply to something more readable such as 200_000_000 * 1e18.		
Resolution	<b>₩</b> RESOLVED		
	The recommendation has been implemented.		

