



Nitro Token Smart Contract

Security Audit Report

Deussec

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Introduction

Deus Security Services (consultant) was contracted by Nitro-League (customer) to conduct smart contracts code review and security analysis.

This report presents the findings of the security assessment of customer's smart contracts and its code review conducted December 9, 2021. This audit report has been prepared for Nitro-League to discover and highlight issues and vulnerabilities in the Nitro-League project's source code and the overall security of the Nitro token. In this report, Deus Security Services, later DeusSec, attempts to ensure the reliability of the smart contract by completing recommended Static Analysis and Manual Review techniques.

The auditing assessment carried out by DeusSec pays special attention to the following considerations:

- Manual review of the entire codebase by industry experts
- Assessing the codebase to ensure compliance with current best practices
- Testing the smart contracts against both common and uncommon attack vectors.
- Ensuring contract logic meets the specifications and intentions of the client.
- Checking whether all the libraries used in the code are of the latest version.
- Running the tests and checking their coverage.

This report aims to help Nitro-League enhance general coding practices for better structures, correctness, and readability of source code. The audit verifies whether the smart contract is secure and working properly according to the specs. We recommend addressing the findings to ensure a high level of security standards and industry practices.

To evaluate the potential vulnerabilities or issues, we go through a checklist of well-known smart contract-related security issues using automatic verification tools and manual review.

DeusSec has discussed Nitro-League's business model to reduce the risk of unknown vulnerabilities. We might test it on our private network to reproduce the issue to prove our findings for any discovered issue.





Executive Summary

The security state of the reviewed contract is "well secured" and is good to go for production.

According to the audit, the customer's Solidity smart contract is well secured and has no critical security problems. The audited contract uses the latest version of OpenZeppelin ERC20 token contract implementation, which is widely adopted and well audited by many parties in crypto community.

Our team reviewed all issues, which included the analysis of code functionality, manual review during automated analysis, and review of applicable vulnerabilities presented in the audit overview section.

The DeusSec team has also conducted unit tests using scripts provided through the same GitHub link, which fortifies the functionality and security of the contract, which also helped us determine the integrity of the code in an automated way.

Since possible test cases can be unlimited and developer-level documentation was not provided, we provide no guarantee of future outcomes. We have used all the latest static tools and manual observations to cover the maximum possible test cases.

Please read the whole document to estimate the risks reasonably.







Overview

Files in Scope

https://github.com/Nitro-League/nitro Commit 0a7fc25241f3c873652bb6e438931061f4678621

Project Summary

Nitro contract implements an ERC20 token standard.

Severity Definition

Critical. The issue has the potential to result in data loss or asset manipulations.

High. The issue may seriously endanger the project's business model.

Medium. The issue requires a fix but doesn't pose a threat that is practical to exploit.

Low. The issue is likely related to outdated or unused code snippets.

Informational. The issue is stylistic; fixes are not mandatory.











Vulnerability Summary

Severity	Total	Pending	Declined	Acknowledged	Resolved
Low	1	0	0	1	Osec



Technical Summary

INDUSTRY STANDARD	
6	6.6

YOUR RATING				Denap
0%	25%	50%	75%	100%

The tested smart contract code is 98%, which is above the industry standard of 95%













Findings

ID	Title	Category	Severity	Status
TM-01	Token Minted to Designated Address	Control Flow	Low	Acknowledged

TM-01 | Token Minted to Designated Address

ID	Category	Severity	Location	Status
TM-01	Control Flow	Low	nitro/contracts/Nitro.sol: 7	Acknowledged

Description

The constructor() mints all of the tokens (1 Billion) to a single address ("distributor") with no checks.

Recommendation

Please ensure the accuracy of the recipient address when calling the constructor of contract. We also advise the client to adopt Multisig, Timelock, and/or DAO in the project to manage this address.











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This report should not be used in any way to make decisions around investment or involvement with any particular project. This report in no way provides investment advice, nor should be leveraged as investment advice of any sort. This report represents an extensive assessing process, intending to help our customers increase the quality of their code while reducing the high level of risk presented by cryptographic tokens and blockchain technology.

Blockchain technology and cryptographic assets present a high level of ongoing risk. DeusSec's position is that each company and individual are responsible for their own due diligence and continuous security.

DeusSec's goal is to help reduce the attack vectors and the high level of variance associated with utilizing new and consistently changing technologies, and in no way claims any guarantee of security or functionality of the technology we agree to analyze.

The assessment services provided by DeusSec are subject to dependencies and under continuing development.



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