

Animal Concert ERC20 Security Review Report

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Version **1.0**

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Animal Concerts	
Audit	
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1 | Executive Summary

Extropy was contracted to conduct an initial code review and vulnerability assessment of the Animal Concerts smart contract

2 | Audit summary

This audit, conducted from 21st October 2021 to 25th October 2021, employed a comprehensive approach combining manual review and automated review methods. Our examination aimed to ensure the robustness and security of the Animal Concerts codebase.

2.1 | Audit scope

The following contracts were audited:

AnimalERC20_nOwner.sol

2.2 | Issues Summary

ID	Finding	Status
4.1	[INFO] Upgrade to latest version of Open Zeppelin libraries	Resolved

2.3 | Methodology

2.3.1 | Risk Rating

The risk rating given for issues follows the standard approach of the OWASP Foundation. We combine two factors :

- Likelihood of exploit
- Impact of Exploit

The Categories we use are *Critical*, *High*, *Medium*, *Low* and *Informational* These categories may not align with the categories used by other companies.

The informational category is used to contain suggestions for optimisation (where this is not seen as causing significant impact), or for alternative design or best practices.

2.4 | Approach

The project was assessed mainly by code inspection, with auditors working independently or together, looking for possible exploits.

Tests were written where possible to validate the issues found.

Static analysis tools were also used, and summary results are attached to this report. These tools are seen as an adjunct to code inspection.

3 | System Overview

The contract is a standard implementation of an ERC20 inheriting from Open Zeppelin contracts.

4 | Findings

4.1 | [INFO] Upgrade to latest version of Open Zeppelin libraries

- **Location(s):** Animal.ERC20.noOwner.sol
- **Description:** Upgrade to latest version of Open Zeppelin libraries

The latest stable version of the Open Zeppelin libraries is version 4.3.2 whereas this project uses version 4.1.0. The optional upgrade would allow the use of the hook `_afterTokenTransfer` though in this instance, this is probably not needed.

- **Recommendation:** Upgrade to the latest version of the library.
- **Status:** Resolved, libraries upgraded to v4.3.2.

A | Disclaimers

The audit makes no statements or warranty about utility of the code, safety of the code, suitability of the business model, regulatory regime for the business model, or any other statements about fitness of the contracts to purpose, or their bug free status. The audit documentation is for discussion purpose

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