

Introduction

A smart contract security audit review of the smart agent reward distribution was done by sparkware's auditor, 0xladboy233, with a focus on the security aspects of the application's implementation.

About Sparkware security

Sparkware security offers cutting edge and affordable smart contract auditing solution. The auditors get reputatoin and skill by consistently get top place in bug bounty and audit competition.

Our past audit prject including optimism and notional finance and graph protocol. Below is a list of comprehensive security review and research: https://github.com/JeffCX/Sparkware-audit_portfolio

Disclaimer

A smart contract security review can never verify the complete absence of vulnerabilities. This is a time, resource and expertise bound effort where I try to find as many vulnerabilities as possible. We can not guarantee 100% security after the review or even if the review will find any problems with your smart contracts. Subsequent security reviews, bug bounty programs and on-chain monitoring are strongly recommended.

Security Assessment Summary

review commit hash - 9686921480098662e062177893e7ab50d631a0a9

Scope

The following smart contracts were in scope of the audit:

- `RewardToken.sol`
- `ERC20WrapperLocked.sol`

Summary and Findings

The core mathematical logic remains unchanged. The code is a fork of [evk-periphery](#) and does not modify any of the underlying math.

The main change involves removing the EVCUtil dependency and directly querying `msg.sender` to obtain the sender's address.

A comprehensive review was conducted to assess the security and correctness of the updated implementation. No vulnerabilities were identified during the audit.