



# Exactly Smart Contract Audit



Exactly RewardsController

March 2023

Smart Contract Audit

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# 1. Executive Summary

In March 2023, Exactly engaged [Coinspect](#) to perform a source code review of Exactly RewardsController. The objective of the project was to evaluate recently introduced changes and fixes to the RewardsController contract.

This report joins a timeline of correlative security audits along with issue IDs, highlighting multiple distinct bugs within the same scope. However, no issues were identified during the assessment:

High Risk	Medium Risk	Low Risk
Open 0	Open 0	Open 0
Fixed 0	Fixed 0	Fixed 0
Reported 0	Reported 0	Reported 0

## 2. Assessment and Scope

The audit started on March 30 2023 and was conducted on the `origin/coverage/protocol` and `origin/fix/missing-rewards-calls` branches of the git repository at [github.com/exactly/protocol](https://github.com/exactly/protocol) as of commits of the `RewardsController.sol` file:

- [78471e69c04308b13dec1b1a40a20ca409424004](#)
- [055816d7b567122081ce3d5a6be37ad4f6a06c50](#)

As for commit [78471e69c04308b13dec1b1a40a20ca409424004](#), the main change introduced in `RewardsController.sol` is how the distribution factor is calculated inside the core `PreviewAllocation` function now considering the difference between the start and end times of the distribution. Also, several variables were refactored in memory structs.

Commit [055816d7b567122081ce3d5a6be37ad4f6a06c50](#) modifies the calculation of the timespan used when calculating the undistributed amount in `RewardsController.PreviewAllocation` if the update is performed after the end of the distribution. It now uses the `deltaTime` input parameter instead of using the current timestamp and the last update.

### 3. Disclaimer

The information presented in this document is provided "as is" and without warranty. The present security audit does not cover any off-chain systems or frontends that communicate with the contracts, nor the general operational security of the organization that developed the code.