Origami Security Review

Report Version 0.1



14.03.2025

Conducted by:

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1 About the auditor

Pyro is distinguished independent smart contract security researcher with robust track record. Over the past year, he has improved the security of many protocols, working both alone and with others. Previously with Guardian, Pyro has audited high-profile clients like Synthetix and GMX, earning him a reputation as a trusted blockchain security researcher. Learn more at https://github.com/0x3b33.

2 Disclaimer

Audits are a time, resource, and expertise-bound effort where trained experts evaluate smart contracts using a combination of automated and manual techniques to identify as many vulnerabilities as possible. Audits can reveal the presence of vulnerabilities **but cannot guarantee their absence**.

3 Risk classification

Severity	Impact: High	Impact: Medium	Impact: Low
Likelihood: High	High	High	Medium
Likelihood: Medium	High	Medium	Low
Likelihood: Low	Medium	Low	Low

3.1 Impact

- High leads to a significant loss of assets in the protocol or significantly harms a group of users.
- **Medium** involves a small loss of funds or affects a core functionality of the protocol.
- Low encompasses any unexpected behavior that is non-critical.

3.2 Likelihood

- **High** a direct attack vector; the cost is relatively low compared to the potential loss of funds.
- **Medium** only a conditionally incentivized attack vector, with a moderate likelihood.
- Low involves too many or unlikely assumptions; offers little to no incentive.

3.3 Actions required by severity level

- High client must fix the issue.
- Medium client should fix the issue.
- Low client could fix the issue.

4 Executive summary

Overview

Project Name	Origami
Repository	https://github.com/TempleDAO/origami
Commit hash	b6d8e012f8ba64cdf2d9da66820419b8dccf568d
Remediation	b6d8e012f8ba64cdf2d9da66820419b8dccf568d
Methods	Manual review

Timeline

v0.1	12.03.2025	Audit kick-off
v0.1	14.03.2025	Preliminary report
v1.0	14.03.2025	Mitigation review

Scope

contracts/investments/infrared/OrigamiInfraredVaultManager.sol contracts/common/swappers/OrigamiSwapperWithCallback.sol

Issues Found

High risk	0
Medium risk	0
Low risk	0
Informational	0

5 System overview

The <code>OrigamiInfraredVaultManager</code> implements auto-compounding strategies for Infrared Vaults, and <code>OrigamiSwapperWithCallback</code> handles DEX swaps with post-swap callbacks for reward to-ken conversion. Both are in use by <code>OrigamiDelegated4626Vault</code>, which inherits the standart <code>OrigamiErc4626</code> vault.

In short it's an auto-compounding 4626 vault over Infrared Vaults.

6 Findings