

Gelato G-UNI Router Upgrade Security Audit

December 17, 2021





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Summary

This report has been prepared for Gelato G-UNI smart contracts, to discover issues and vulnerabilities in the source code of their Smart Contract as well as any contract dependencies that were not part of an officially recognized library. A comprehensive examination has been performed, utilizing Static Analysis and Manual Review techniques.

The auditing process pays special attention to the following considerations:

- Testing the smart contracts against both common and uncommon attack vectors.
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.



Overview

Project Summary

Project Name	Gelato G-UNI Router Upgrade
Codebase	https://github.com/gelatodigital/g-uni-v1-periphery
Commit	4f8f64d59c2bb3b19fec49bbab32f8e27fd1abe9
Language	Solidity
Platform	Ethereum

Audit Summary

Delivery Date	Dec 17, 2021
Audit Methodology	Static Analysis, Manual Review
Total Issues	2



GU-05: Unnecessary modifiers

Minor

Issue Description

[contracts/GUniRouter.sol#L59](#)

`whenNotPaused` is unnecessary for `pause()` as `_pause()` already come with the `whenNotPaused` modifier.

Same for `whenPaused` on `unpause()`.

Status

✓ Fixed



GU-06: Cache external call results can save gas

Minor

Issue Description

[contracts/GUniRouter.sol#L388](#)

`pool.token0()` and `pool.token1()` are external calls, cache them in the stack can save some gas.

Status

✓ Fixed



Appendix

Timeliness of content

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