LI.FI Security Review

StargateFacetV2 (v.1.0.1)

Independent Review By:

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1 About Researcher

Sujith Somraaj is a security researcher offering freelance reviews and other security-related consulting to projects in Web3.

Besides this part-time gig, Sujith is a protocol engineer at Superform and a security researcher at Spearbit. Learn more about Sujith on sujithsomraaj.xyz

2 Disclaimer

Note that this security audit is not designed to replace functional tests required before any software release, and does not give any warranties on finding all possible security issues of that given smart contract(s) or blockchain software. i.e., the evaluation result does not guarantee against a hack (or) the non existence of any further findings of security issues. As one audit-based assessment cannot be considered comprehensive, I always recommend proceeding with several audits and a public bug bounty program to ensure the security of smart contract(s). Lastly, the security audit is not an investment advice.

This review is done independently by the reviewer and is not entitled to any of the security agencies the researcher worked / may work with.

3 Scope

- src/Facets/StargateFacetV2.sol (v.1.0.1)

4 Risk classification

Severity level	Impact: High	Impact: Medium	Impact: Low
Likelihood: high	Critical	High	Medium
Likelihood: medium	High	Medium	Low
Likelihood: low	Medium	Low	Low

4.1 Impact

High   leads to a loss of a significant portion (>10%) of assets in the protocol, or significant harm to a majority of users.

Medium   global losses <10% or losses to only a subset of users, but still unacceptable.

Low   losses will be annoying but bearable — applies to things like griefing attacks that can be easily repaired or even gas inefficiencies.

4.2 Likelihood

High   almost certain to happen, easy to perform, or not easy but highly incentivized

Medium   only conditionally possible or incentivized, but still relatively likely

Low   requires stars to align, or little-to-no incentive

4.3   Action required for severity levels

Critical   Must fix as soon as possible (if already deployed)

High   Must fix (before deployment if not already deployed)

Medium   Should fix

Low   Could fix

5   Executive Summary

Over the course of 2 hours in total, LI.FI engaged with the researcher to review a small fix in the StargateFacetV2. The review allowed the researcher to validate if the hotfix (update the sendParams.amountLD with the value of the bridgeData.minAmount after a pre-bridge swap) made is safe. Thereby the scope of this review is only limited to the hotfix made in the StargateFacetV2 not the facet in its entirety.

In this period of time a total of 0 issues were found.

Project Summary	
Project Name	LI.FI
Repository	lifinance/contracts
Commit	d622002440...39d84957e2
Type of Project	
Audit Timeline	August 8, 2024
Methods	Manual Review

Issues Found	
Critical Risk	0
High Risk	0
Medium Risk	0
Low Risk	0
Gas Optimizations	0
Informational	0
Total Issues	**0**

6 Findings