

Security Assessment for

Hope-lend-periphery

July 28, 2023



Total

Critical Issues

High risk Issues

Low risk Issues

Informational

Issues

Medium risk Issues

Executive Summary

Overview	
Project Name	Hope-lend-periphery
Codebase URL	https://github.com/Light-Ecosystem/lend- periphery/tree/audit
Scan Engine	Security Analyzer
Scan Time	2023/07/28 11:51:31
Commit Id	04ba5ce512b6421aebb1575673f644acd4b35b7d

0.0	
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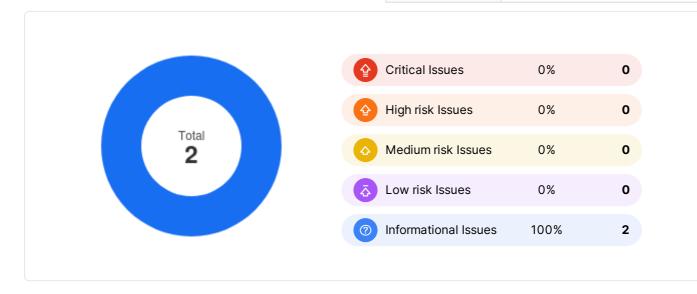
The issue can cause large economic losses, large-scale data disorder, loss of control of authority Critical Issues management, failure of key functions, or indirectly affect the correct operation of other smart contracts interacting with it.

The issue puts a large number of users' sensitive information at risk or High Risk Issues is reasonably likely to lead to catastrophic impacts on clients' reputations or serious financial implications for clients and users.

The issue puts a subset of users' sensitive information at risk, would Medium Risk be detrimental to the client's Issues reputation if exploited, or is reasonably likely to lead to moderate financial impact. **⇔**

The risk is relatively small and could not be exploited on a recurring Low Risk Issues basis, or is a risk that the client has indicated is low-impact in view of the client's business circumstances. $\bar{\Delta}$

The issue does not pose an Informational Issue immediate risk but is relevant to security best practices or Defence in Depth. (?)





Summary of Findings

MetaScan security assessment was performed on July 28, 2023 11:51:31 on project Hope-lend-periphery with the repository lend_periphery_Jun_12 on branch -. The assessment was carried out by scanning the project's codebase using the scan engine Security Analyzer. There are in total 2 vulnerabilities / security risks discovered during the scanning session, among which 0 critical vulnerabilities, 0 high risk vulnerabilities, 0 medium risk vulnerabilities, 0 low risk vulnerabilities, 2 informational issues.

ID		Description		Alleviation
M	SA-001	Redundant contract	Informational	Acknowledged
MS	SA-002	Lack of zero address check	Informational	Acknowledged



Findings



Critical (0)

No Critical vulnerabilities found here



High risk (0)

No High risk vulnerabilities found here



Medium risk (0)

No Medium risk vulnerabilities found here



∆ Low risk (0)

No Low risk vulnerabilities found here



Informational (2)

1. Redundant contract



(?) Informational



Security Analyzer

 $\label{thm:contracts/dependencies/openzeppelin/ReentrancyGuard.sol} Is \textit{redundant} \textit{ and } \textit{unused}.$

In the aave-v3-periphery repository, it is referred to by the ParaSwapLiquiditySwapAdapter.sol contract, which does not exist in the lend-periphery repository, so it is useless for lend-periphery repository.

File(s) Affected

lend-periphery/contracts/dependencies/openzeppelin/ReentrancyGuard.sol #21-21

```
21 abstract contract ReentrancyGuard {
```

Recommendation

Consider removing the redundant contract contracts/dependencies/openzeppelin/ReentrancyGuard.sol.

Alleviation Acknowledged

The development team acknowledged this finding.

2. Lack of zero address check



Informational



Security Analyzer

Zero addresses assigned to address type storage variables by mistake will incur unexpected results.

File(s) Affected



lend-periphery/contracts/treasury/HopeLendEcosystemReserve.sol #60-63

```
function initialize(address fundsAdmin) external initializer {
    _nextStreamId = 100000;
    _setFundsAdmin(fundsAdmin);
}
```

lend-periphery/contracts/treasury/AdminControlledEcosystemReserve.sol #73-76

```
function _setFundsAdmin(address admin) internal {
    _fundsAdmin = admin;
    emit NewFundsAdmin(admin);
}
```

lend-periphery/contracts/misc/UiPoolDataProvider.sol #35-36

```
networkBaseTokenPriceInUsdProxyAggregator = _networkBaseTokenPriceInUsdProxyAggregator;//@audit sani
marketReferenceCurrencyPriceInUsdProxyAggregator = _marketReferenceCurrencyPriceInUsdProxyAggregator
```

lend-periphery/contracts/misc/WrappedTokenGateway.sol #39-40

```
39  POOL = pool;
40  _transferOwnership(owner);
```

Recommendation

Consider adding zero value checks for assigning values to address type storage variables.

Alleviation Acknowledged

The development team acknowledged this finding.



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