





METATRUST

Security Assessment for Hope-lend-periphery






July 28, 2023

Executive Summary

Overview			
Project Name	Hope-lend-periphery		Critical Issues 
Codebase URL	https://github.com/Light-Ecosystem/lend-periphery/tree/audit		
Scan Engine	Security Analyzer		
Scan Time	2023/07/28 11:51:31		High Risk Issues 
Commit Id	04ba5ce512b6421aebb1575673f644acd4b35b7d		
Total			
Critical Issues	0		
High risk Issues	0		
Medium risk Issues	0		
Low risk Issues	0		
Informational Issues	2		

Critical Issues	The issue can cause large economic losses, large-scale data disorder, loss of control of authority management, failure of key functions, or indirectly affect the correct operation of other smart contracts interacting with it.
High Risk Issues	The issue puts a large number of users' sensitive information at risk or is reasonably likely to lead to catastrophic impacts on clients' reputations or serious financial implications for clients and users.
Medium Risk Issues	The issue puts a subset of users' sensitive information at risk, would be detrimental to the client's reputation if exploited, or is reasonably likely to lead to moderate financial impact.
Low Risk Issues	The risk is relatively small and could not be exploited on a recurring basis, or is a risk that the client has indicated is low-impact in view of the client's business circumstances.
Informational Issue	The issue does not pose an immediate risk but is relevant to security best practices or Defence in Depth.



	Critical Issues	0%	0
	High risk Issues	0%	0
	Medium risk Issues	0%	0
	Low risk Issues	0%	0
	Informational Issues	100%	2

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	Severity	Alleviation
MSA-001	Redundant contract	Informational	Acknowledged
MSA-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

The contract `contracts/dependencies/openzeppelin/ReentrancyGuard.sol` is redundant and 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

```
60     function initialize(address fundsAdmin) external initializer {
61         _nextStreamId = 100000;
62         _setFundsAdmin(fundsAdmin);
63     }
```

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

```
73     function _setFundsAdmin(address admin) internal {
74         _fundsAdmin = admin;
75         emit NewFundsAdmin(admin);
76     }
```

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

```
35     networkBaseTokenPriceInUsdProxyAggregator = _networkBaseTokenPriceInUsdProxyAggregator; // @audit sani
36     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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