



PALADIN
BLOCKCHAIN SECURITY

Smart Contract Security Assessment

Final Report

For LayerZero
(VeDistributor)

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paladinsec.co



info@paladinsec.co

Table of Contents

Table of Contents	2
Disclaimer	3
1 Overview	4
1.1 Summary	4
1.2 Contracts Assessed	4
1.3 Findings Summary	5
1.3.1 VeDistributor	6
1.3.2 IVeDistributor	6
1.3.3 IVotingEscrow	6
2 Findings	7
2.1 VeDistributor	7
2.1.1 Privileged Functions	7
2.1.2 Issues & Recommendations	8
2.2 IVeDistributor	9
2.2.1 Issues & Recommendations	9
2.3 IVotingEscrow	10
2.3.1 Issues & Recommendations	10



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1 Overview

This report has been prepared for LayerZero's VeDistributor contracts on the Ethereum network. Paladin provides a user-centred examination of the smart contracts to look for vulnerabilities, logic errors or other issues from both an internal and external perspective.

1.1 Summary

Project Name	LayerZero
URL	https://layerzero.network/
Platform	Ethereum
Language	Solidity
Preliminary Contracts	https://github.com/LayerZero-Labs/stg-zro-swapper/blob/8810a9023a13ba1c7de96cca30ec04c22a05c537/contracts/
Resolution #1	Commit: 8a96433c992f630eb50858c8a0e93153eb06d765

1.2 Contracts Assessed

Name	Contract	Live Code Match
VeDistributor		N/A
IVeDistributor		N/A
IVotingEscrow		N/A

1.3 Findings Summary

Severity	Found	Resolved	Partially Resolved	Acknowledged (no change made)
● High	0	-	-	-
● Medium	0	-	-	-
● Low	0	-	-	-
● Informational	1			
Total	1			

Classification of Issues

Severity	Description
● High	Exploits, vulnerabilities or errors that will certainly or probabilistically lead towards loss of funds, control, or impairment of the contract and its functions. Issues under this classification are recommended to be fixed with utmost urgency.
● Medium	Bugs or issues with that may be subject to exploit, though their impact is somewhat limited. Issues under this classification are recommended to be fixed as soon as possible.
● Low	Effects are minimal in isolation and do not pose a significant danger to the project or its users. Issues under this classification are recommended to be fixed nonetheless.
● Informational	Consistency, syntax or style best practices. Generally pose a negligible level of risk, if any.

1.3.1 VeDistributor

No issues found.

1.3.2 IVeDistributor

ID	Severity	Summary	Status
01	INFO	Typographical issue	✓ RESOLVED

1.3.3 IVotingEscrow

No issues found.

2 Findings

2.1 VeDistributor

The VeDistributor contract allows its owner to distribute rewards to users who have locked amounts at a certain snapshot in time.

2.1.1 Privileged Functions

- `transferOwnership[onlyOwner]`
- `renounceOwnership[onlyOwner]`
- `pause[onlyOwner]`
- `unpause[onlyOwner]`
- `emergencyWithdraw[onlyOwner]`
- `distribute[onlyOwner]`



2.1.2 Issues & Recommendations

No issues found.



We tested different deployment times and snapshot blocks relative to user VotingEscrow locking times and VeDistributor.claimUsdc() calls, and did not manage to find a case where a user can receive more than another user with the same locked amount and time.



2.2 IVEdistributor

The IVEdistributor interface declares the errors, events and outlines the functions for the VeDistributor contract.

2.2.1 Issues & Recommendations

Issue #01	Typographical issue
Severity	 INFORMATIONAL
Description	Unused error: error UsdcAmountUnavailable(uint256 maximum, uint256 provided);
Recommendation	Consider removing the error.
Resolution	 RESOLVED

2.3 IVotingEscrow

The IVotingEscrow interface outlines the VotingEscrow functions that VeDistributor is calling.

2.3.1 Issues & Recommendations

No issues found.





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