



METATRUST

Pre Report for
Derpdex-permit2

August 2, 2023






Executive Summary

Overview			
Project Name	Derpdex-permit2		
Codebase URL	https://github.com/derpdex-official/permit2		
Scan Engine	Security Analyzer		
Scan Time	2023/08/2 11:34:07		
Commit Id	8594d824		

Total			
Critical Issues	0		
High risk Issues	0		
Medium risk Issues	0		
Low risk Issues	0		
Informational Issues	1		

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%	1

Summary of Findings

MetaScan security assessment was performed on **August 2, 2023 11:34:07** on project **Derpdex-permit2** with the repository **<https://github.com/derpdex-official/permit2>** on branch **master**. The assessment was carried out by scanning the project's codebase using the scan engine **Security Analyzer**. There are in total **1** 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, **1** informational issues.

ID	Description	Severity
MSA-001	Floating Pragma	Informational

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 (1)

1. Floating Pragma

 Informational

 Security Analyzer

An unlocked compiler version like ^0.8.0 in the contract's source code permits the user to compile it at or above a particular version, which leads to differences in the generated bytecode between compilations due to differing compiler version numbers. As a result, compiler-specific bugs may occur in the codebase that would be hard to identify throughout multiple compiler versions rather than a specific one, which can cause ambiguity. Moreover, the contracts may be at the risk of being accidentally deployed using an outdated compiler version which can introduce bugs to affect the contract system negatively.

All the contracts in the folder **contracts/libraries** exist this issue is not limited to below examples:

```
//Allowance.sol
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.17;
```

```
//Permit2Lib.sol
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.17;
```

File(s) Affected

contracts/libraries/SignatureVerification.sol #2-2

```
2 pragma solidity ^0.8.17;
```

Recommendation

Consider locking the compiler version to the lowest version possible for the contracts in this project so that the contract can be compiled and consider known bugs for the chosen compiler version.

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