



METATRUST

Draft
Security Assessment for
**Hack-20220529-
NOVOProtocol
(1Negative-UT)
(1Positive-ANC)**

July 23, 2023






Executive Summary

Overview			
Project Name	Hack-20220529-NOVOProtocol (1Negative-UT) (1Positive-ANC)		
Codebase URL	-		
Scan Engine	AI Analyzer		
Scan Time	2023/07/23 15:18:00		
Commit Id	-		

Total			
Critical Issues	0		
High risk Issues	2		
Medium risk Issues	0		
Low risk Issues	0		
Informational Issues	0		

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

Summary of Findings

MetaScan security assessment was performed on **July 23, 2023 15:18:00** on project **Hack-20220529-NOVOProtocol (1Negative-UT) (1Positive-ANC)** with the repository **Hack_20220529_NOVOProtocol** on branch **default branch**. The assessment was carried out by scanning the project's codebase using the scan engine **AI Analyzer**. There are in total **2** vulnerabilities / security risks discovered during the scanning session, among which **0** critical vulnerabilities, **2** high risk vulnerabilities, **0** medium risk vulnerabilities, **0** low risk vulnerabilities, **0** informational issues.

ID	Description	Severity
MSA-001	MWE-203: Approval Not Revoked	High risk
MSA-002	MWE-203: Approval Not Revoked	High risk


Findings

Critical (0)

No Critical vulnerabilities found here

High risk (2)

1. MWE-203: Approval Not Revoked

 High risk Security Analyzer

Approval is not revoked or reset after the code functionality finishes.

File(s) Affected



NOVO.sol #1071-1080

```
1071     function transferFrom(  
1072         address from,  
1073         address to,  
1074         uint256 tokenId  
1075     ) public virtual override {  
1076         //solhint-disable-next-line max-line-length  
1077         require(!_isApprovedOrOwner(_msgSender(), tokenId), "ERC721: transfer caller is not owner nor  
1078  
1079         _transfer(from, to, tokenId);  
1080     }
```

Recommendation

Try to remove the approval after the code finishes its job.

2. MWE-203: Approval Not Revoked

 High risk Security Analyzer

Approval is not revoked or reset after the code functionality finishes.

File(s) Affected

NOVO.sol #1252-1272

```
1252     function _transfer(  
1253         address from,  
1254         address to,  
1255         uint256 tokenId  
1256     ) internal virtual {  
1257         require(ERC721Upgradeable.ownerOf(tokenId) == from, "ERC721: transfer from incorrect owner");  
1258         require(to != address(0), "ERC721: transfer to the zero address");  
1259  
1260         _beforeTokenTransfer(from, to, tokenId);  
1261  
1262         // Clear approvals from the previous owner  
1263         _approve(address(0), tokenId);  
1264  
1265         _balances[from] -= 1;  
1266         _balances[to] += 1;  
1267         _owners[tokenId] = to;  
1268  
1269         emit Transfer(from, to, tokenId);  
1270  
1271         _afterTokenTransfer(from, to, tokenId);  
1272     }
```

NOVO.sol #1071-1080

```
1071     function transferFrom(  
1072         address from,  
1073         address to,  
1074         uint256 tokenId  
1075     ) public virtual override {  
1076         //solhint-disable-next-line max-line-length  
1077         require(_isApprovedOrOwner(_msgSender(), tokenId), "ERC721: transfer caller is not owner nor  
1078  
1079         _transfer(from, to, tokenId);  
1080     }
```

Recommendation

Try to remove the approval after the code finishes its job.

Medium risk (0)

No Medium risk vulnerabilities found here

Low risk (0)

No Low risk vulnerabilities found here

Informational (0)

No Informational vulnerabilities found here

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