

# Draft Security Assessment for

# 102-2022-03-volt (StaticFail)

July 23, 2023

The issue can cause large

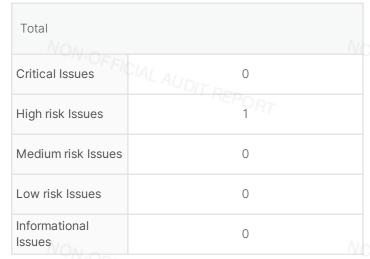


# **Executive Summary**

Overview Oppos	
Project Name	102-2022-03-volt (StaticFail)
Codebase URL	-
Scan Engine	Al Analyzer
Scan Time	2023/07/23 20:54:29
Commit Id	<u>^</u>

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-03-volt (StaticFail)	
-	
Al Analyzer	
023/07/23 20:54:29	
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	Critical Issues	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.
Dyn	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.







# **Summary of Findings**

MetaScan security assessment was performed on **July 23, 2023 20:54:29** on project **102-2022-03-volt (StaticFail)** with the repository **102\_2022\_03\_volt** on branch **default branch**. The assessment was carried out by scanning the project's codebase using the scan engine **Al Analyzer**. There are in total **1** vulnerabilities / security risks discovered during the scanning session, among which **0** critical vulnerabilities, **1** high risk vulnerabilities, **0** medium risk vulnerabilities, **0** low risk vulnerabilities, **0** informational issues.

ID	Description	Severity
MSA-001	MWE-205: Front Running	High risk



# **Findings**



# **4** Critical (0)

No Critical vulnerabilities found here ICIAL AUDIT REPORT



# High risk (1)

1. MWE-205: Front Running



High risk



Security Analyzer

Users are required to transfer assets in advance and minting token/liquidity/earning thus could be frontrun.

#### File(s) Affected

contracts/utils/GlobalRateLimitedMinter.sol #55-65

```
function mintMaxAllowableVolt(address to)
external
virtual
override
whenNotPaused
uint256 amount = Math.min(individualBuffer(msg.sender), buffer());
_depleteIndividualBuffer(msg.sender, amount);
_mintVolt(to, amount);
                                     NON-OFFICIAL AUDIT REPORT
```

### Recommendation

Put asset transfering and token minting in the same function to keep atomicity.

# 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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