



CVE-2021-25837

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[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

CVSS:31/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:H/A:N



Certain versions of [Ethermint](#) from [Chainsafe](#) contain the following vulnerability:

Cosmos Network Ethermint $\leq$ v0.4.0 is affected by cache lifecycle inconsistency in the EVM module. Due to the inconsistency between the Storage caching cycle and the Tx processing cycle, Storage changes caused by a failed transaction are improperly reserved in memory. Although the bad storage cache data will be discarded at

EndBlock, it is still valid in the current block, which enables many possible attacks such as an "arbitrary mint token".

CVE-2021-25837 has been assigned by [M](#) cve@mitre.org to track the vulnerability - currently rated as **HIGH** severity.

CVSS3 Score: **7.5 - HIGH**

Attack Vector	Attack Complexity	Privileges Required	User Interaction
NETWORK	LOW	NONE	NONE
Scope	Confidentiality Impact	Integrity Impact	Availability Impact
UNCHANGED	NONE	HIGH	NONE

CVSS2 Score: **5 - MEDIUM**

Access Vector	Access Complexity	Authentication
NETWORK	LOW	NONE
Confidentiality Impact	Integrity Impact	Availability Impact
NONE	PARTIAL	NONE

CVE References

Description	Tags	Link
There may be bad data points in CommitStateDB when	CVE-2021-25837	Mitre

There may be bad data points in CommitStateDB when
exec evm transaction with multi msgs · Issue #667 ·
cosmos/ethermint · GitHub

Exploit
Third Party Advisory
github.com
text/html

MISC
github.com/cosmos/ethermint/issues/667#issuecomment-
759284107

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Application	Chainsafe	Ethermint	All	All	All	All
cpe:2.3:a:chainsafe:ethermint:*****:*						

No vendor comments have been submitted for this CVE

Social Mentions

Source	Title	Posted (UTC)
 @Ainevsia3	iczc.me/post/ethermint... a serious cache vulnerability of Ethermint <=v0.4.1 by my lovely @iczcalan	2022-07-14 12:28:52

← Previous ID

Next ID →

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