



CVE-2021-25835

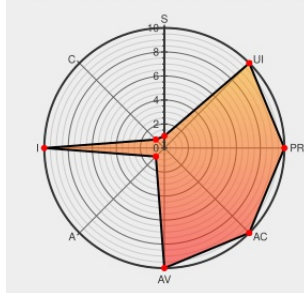
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[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#)

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 a cross-chain transaction replay vulnerability in the EVM module. Since ethermint uses the same chainIDEpoch and signature schemes with ethereum for compatibility, a verified signature in ethereum is still valid in ethermint with the same msg content and chainIDEpoch, which enables "cross-chain transaction replay" attack.

CVE-2021-25835 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
Fix nonce issue for replay attack by araskachoi · Pull Request #692 · cosmos/ethermint · GitHub	Patch Third Party Advisory	MISC github.com/cosmos/ethermint/pull/692

github.com
text/html

Replay Tx on another Chain · Issue #687 · cosmos/ethermint · GitHub

Third Party Advisory
github.com
text/html

MISC
github.com/cosmos/ethermint/issues/687

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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	Ethernint	All	All	All	All
cpe:2.3:a:chainsafe:ethernint:*:*:*:*:*:						

No vendor comments have been submitted for this CVE

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