CVE-2022-23507

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CVE-2022-23507 - advisory for GHSA-xqqc-c5gw-c5r5

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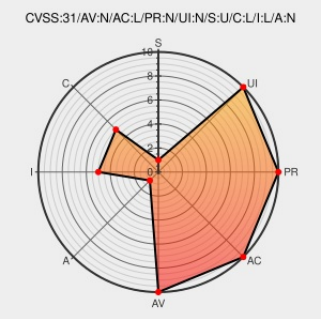

Certain versions of Tendermint-light-client-js from Tendermint-light-client-js Project contain the following vulnerability:

Tendermint is a high-performance blockchain consensus engine for Byzantine fault tolerant applications. Versions prior to 0.28.0 contain a potential attack via Improper Verification of Cryptographic Signature, affecting anyone using the tendermint-light-client and related packages to perform light client verification (e.g. IBC-rs, Hermes). The light client does not check that the chain IDs of the trusted and untrusted headers match, resulting in a possible attack vector where someone who finds a header from an untrusted chain that satisfies all other verification conditions (e.g. enough overlapping validator signatures) could fool a light client. The attack vector is currently theoretical, and no proof-of-concept exists yet to exploit it on live networks. This issue is patched in version 0.28.0. There are no workarounds.

CVE-2022-23507 has been assigned by security-advisories@github.com to track the vulnerability - currently rated as MEDIUM severity.

Affected Vendor/Software: **informalsystems** - **tendermint-rs** version **= 0.28.0**

CVSS3 Score: 6.5 - MEDIUM

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

CVE References

Description	Tags	Link
Light client verification not taking into account chain ID · Advisory · informalsystems/tendermint-rs · GitHub	github.com text/html	MISC github.com/informalsystems/tendermint-rs/security/advisories/GHSA-xqqc-c5gw-c5r5

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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	Tendermint-light-client-js Project	Tendermint-light-client-js	All	All	All	All
Application	Tendermint-light-client-verifier Project	Tendermint-light-client-verifier	All	All	All	All
Application	Tendermint-light-client Project	Tendermint-light-client	All	All	All	All

cpe:2.3:a:tendermint-light-client-js_project:tendermint-light-client-js:*:*:*:*:rust:*:*:*:

cpe:2.3:a:tendermint-light-client-verifier_project:tendermint-light-client-verifier:*:*:*:*:*:rust:*:*:

cpe:2.3:a:tendermint-light-client_project:tendermint-light-client:*:*:*:*:rust:*:*:*:

No vendor comments have been submitted for this CVE

Social Mentions

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