Breaking Blockchain Availability

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Abstract—We present a novel and impactful attack that applies to multiple blockchain networks. This attack can cause large-scale node disconnections and enable targeted eclipse attacks, resulting in serious availability and reliability issues across affected systems.

Due to ethical considerations, we do not disclose any technical details at this stage. This document serves as a proof of existence and aims to raise awareness of the underlying risks. Full details will be released once the vulnerabilities have been properly addressed.

I. HASHES

We disclosed the vulnerability to the most affected team on 16 May 2025.

- 8dab5c65b1be248a3d4053f60e8f54bd904ce7ebb5e1ba382a27c667e21b6164
- 66d0e89f5945132f681a0bf7289f6a3697a95cbc324f3ab55724da75633699be
- 995ae04239c86f2da02a35b92f30b595f7a21150c93b7d1e29167df09859ccd0