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Solana Blockchain Hits 100,000 TPS in Stress Test

August 18, 2025

— Categories: Crypto



Solana has reached a notable milestone in blockchain scalability, briefly crossing the 100,000 transactions per second (TPS) mark during a weekend stress test. The achievement, confirmed by Mert Mumtaz, co-founder of Solana's developer tooling firm Helius, highlights the blockchain's potential capacity, though real-world performance remains significantly lower.

According to Mumtaz, Solana recorded 107,540 TPS during the test. However, most of these were “noop” or no-operation program calls—lightweight transactions designed to test

the network rather than actual token transfers or complex applications. While this record demonstrates Solana's ability to handle high transaction loads in theory, it does not represent practical user activity.

Real Throughput Much Lower

Despite the impressive figure, Solana's effective TPS is closer to 1,050 transactions per second. Data from Solscan shows that genuine user interactions, such as token transfers and smart contract executions, make up this figure. A large portion of Solana's reported TPS comes from validator vote transactions, which are part of the blockchain's consensus mechanism. These votes keep the network secure but do not reflect everyday user activity.

Industry analysts note that nearly two-thirds of Solana's recorded TPS consists of these validator votes. This explains why real-world performance remains far below the headline-grabbing 100,000 TPS milestone.

Memecoins Drive Solana's Ecosystem

Another major factor shaping Solana's network activity is the rise of memecoins. Recent analysis shows that Pump.fun, a platform for minting and trading memecoins, controls around 62% of Solana's total value locked (TVL). This means that much of Solana's activity is tied to speculative tokens rather than diverse blockchain applications.

While memecoins continue to dominate, the milestone demonstrates Solana's scalability potential, which could eventually support a wider range of applications. Developers and investors alike are closely watching how Solana can balance its high capacity with practical adoption.

Implications for Pakistan's Crypto Market

For crypto investors and enthusiasts in Pakistan, Solana's breakthrough is another reminder of how blockchain technology is advancing globally. Although memecoins remain the primary driver of activity on Solana, the ability to handle high transaction volumes positions the network as a serious contender in blockchain scalability.

As Pakistan's interest in digital assets continues to grow despite regulatory uncertainty, developments such as Solana's stress test highlight the pace at which blockchain ecosystems are evolving worldwide.

At present, the real challenge for Solana lies in converting its technical potential into broader, real-world applications beyond speculative trading. If successful, this could have long-term implications not just for international markets but also for emerging economies like Pakistan, where efficient blockchain networks may eventually support finance, remittances, and digital commerce.