

Below is a link to Telegram whitepaper ...

Does anyone understand how is this supposed to work ?)) They claim it to be infinitely fast and infinitely good

https://drive.google.com/file/d/1ucUeKg_NiR8RxNAonb8Q55jZha03WC0O/view

Some quotations:

Because taking cryptocurrencies mainstream in 2018 would not be possible using the existing blockchain platforms,⁴ Telegram co-founder Dr. Nikolai Durov set out to find a novel solution to meet the speed and scalability required for mass adoption.

At the core of the platform is the TON Blockchain — a scalable and flexible blockchain architecture that consists of a master chain and up to 2^{92} accompanying blockchains.

TON blockchains can automatically split and merge to accommodate changes in load. This means that new blocks are always generated quickly and the absence of long queues helps keep transaction costs low, even if some of the services using the platform become massively popular.

TON blockchains use smart routing mechanisms to ensure that transactions between any two blockchains will always be processed swiftly, regardless of the size of the system. The time needed to pass information between TON blockchains grows logarithmically with their number, so scaling to even millions of chains will allow them all to communicate at top speed.

TON can «grow» new valid blocks on top of any blocks that were proven to be incorrect to

avoid unnecessary forks. This self-healing mechanism saves resources and guarantees that valid transactions will not be discarded due to unrelated errors.

TON uses a Proof-of-Stake approach in which processing nodes («validators») deposit stakes to guarantee their dependability and reach consensus through a variant of the Byzantine Fault Tolerant protocol. This allows TON to focus the computing power of its nodes on handling transactions and smart contracts, further increasing speed and efficiency.