



Regulators

Regulators gather transactions received from other nodes and execute any associated smart contracts to form new blocks, then participate in a Byzantine Fault Tolerant (BFT) consensus protocol to advance the state of the network. Since BFT protocols can scale only to a few hundred participants and can tolerate at most a third of the participants acting maliciously, a proof-of-stake mechanism admits only a limited set of nodes to this role. These roles are assigned to law enforcement individuals, data security experts and officials and central policy makers of Hexa.

Data Owners

Most machines running the Celo blockchain software are either not configured to be, or not elected as, regulators. Celo nodes do not do "mining" as in Proof-of-Work networks. Their primary role is to send data to data analysts and maintain security. Data Owners maintain at least a partial history of the blockchain by transferring new blocks between themselves and can join or leave the network at any time.

Data Analysts

Data Analysts companies connect to Data Owner to see the permitted data but they do not receive or retain the full state of the blockchain.