Baton

How Baton's Tech Delivers Fast & Accurate Transactions

SIBILITY. RISK. CONTROL. VISIBILITY. RISK. CONTROL. VISIBILITY. RISK. CONTROL. VISIBILITY. RISK. CONTROL. VISIBILITY. RISK. CONTROL. VI



Mohammad Abidi Senior Director of Engineering

In PAY21, Mohammad Abidi gives an overview of the exciting technology that powers Baton's services.

Technology Suite

Mohammad sets out the three main components of Baton's system:

- Clearing and settlement gateway
- Shared permission ledger
- Workflow

The platform, he explains, works on native assets by connecting to the ledgers of financial institutions via the clearing and settlement gateway. The key advantage from this is that Baton's system does not require conversion to any digital token or cryptocurrency.

A trade, Mohammad explains, goes through a set of states from initialisation to completion. All states are immutably saved into the shared permission ledger.

The ledger allows access by multiple subscribers including internal customers or third parties such as regulatory bodies.

"Think of a ledger as a materialised view based on permissions," Mohammad says.

The workflow represents the business processes that a particular transaction goes through. "It's similar to the smart contracts that you have on other DLTs," Mohammad explains. "All state changes are recorded onto the shared permission ledger."

The workflow itself can be divided into public and private steps. The public steps are shared between the two parties to a transaction, whereas the private steps, such as a required approval or a particular threshold, are peculiar to one participant.

"Baton's system does not require conversion to any digital token or cryptocurrency."



"We regularly run business continuity and disaster recovery plans to ensure that we are ready for any downtime that might occur." Another of the Baton platform's features which Mohammad describes is the ability to aggregate incoming trades. These are then assessed by a rule engine which can define thresholds or time-of-day events and workflows activated. The activation step is a set of workflows which execute across nodes, helping to settle assets or payments.

Operations and Customer Service

Finally, Mohammad outlines Baton platform's essential operational features – meeting SOC2 compliance - well-documented processes covering security, change management, disaster recovery and business continuity.

The company also has an InfoSec programme with an external partner which runs monthly vulnerability tests and quarterly penetration tests.

"We monitor all of our production environments very actively," Mohammad says. "We regularly run business continuity and disaster recovery plans to ensure that we are ready for any downtime that might occur.

"The ability to provide high-quality support to our global customer base is very important. We review our SLAs monthly and work closely with our customers to prioritise and implement new features and offer appropriate training."

About Mohammad

Mohammad Abidi is the Senior Director of Engineering at Baton Systems, leading the design, architecture, and development of the Baton platform.

Mohammad has over 20 years' experience in technology. He joined Baton Systems in 2016 from Yahoo, where he was Senior Technical Program Manager, working on the Mobile Search Innovation team. Mohammad holds a BS in Electrical Engineering from the University of Texas at Austin.

About Baton Systems

Founded in 2016 by technology, payments and capital markets veterans, and backed by venture capital, Baton Systems is reforming how payments are made in the world's largest financial markets.

By delivering on-demand synchronization and orchestration of asset movements through its distributed ledger-based platform, Baton is eliminating friction to speed clearing and settlement, reducing risk and pre-funding requirements, and increasing liquidity.

