RS software

RS SettleEdge™

Real-Time Clearing and Ultra-high Frequency Settlement

It is essential to maintain the integrity, efficiency, and stability of financial markets, while also facilitating the smooth functioning of trading activities.

High levels of creativity and innovation have resulted in the Clearing and Settlement System, RS SettleEdge™, architected for Real-Time Clearing and Ultra-high Frequency Settlement.

RS SettleEdge™ is designed to achieve high productivity and performance for the banking ecosystem, mandatory to achieve benefits that digital economies are slated to bring to consumers and businesses alike. This is the first-of-its-kind 3rd-generation system with a proven track record of delivering results at varying scales, depending on the levels of digital adoption in an economy.

RS SettleEdge™ is architected to process stream-based data ingestion for settlement processing at high frequency without creating any backpressure on the online system.

5000 TPS

throughput supported by the system

10 million

transactions in 10-12 mins settlement processing rate

Most clearing and settlement systems in the market offer batch-based processing, which translates into higher liquidity holding, thus resulting in inefficient liquidity management.

In contrast, RS Software's unique and innovative architecture delivers dynamic on-demand settlement with multiple cycles at high frequency. This ensures lower liquidity requirements for the participating stakeholders, resulting in broader adoption and efficient liquidity management and positively impacting the economy. The modern data architecture takes Data towards Processing, resulting in high throughput.

RS SettleEdge™ - Highlights

API-1st and microservices-based architecture offers ease and convenience of integrating with the surrounding mission-critical systems and ease of customization.

Architected with optimal modularity to deliver a high degree of horizontal and vertical scalability, quintessential for NextGen digital payment technology to support business growth.

Scales to process millions of transactions without compromising High Throughput.

Settlement processing across multiple payment rails.

Supports Pre-scheduled and On-Demand settlement processing.

Deployable on-premises or in-cloud.

Supports multi-sharded databases across multiple data centers in active-active mode.

Offers features like Limit Management, Fee Calculations, Settlement Reports, Complaints and Disputes, MIS, DSS & Adhoc Reports, and Alerts.

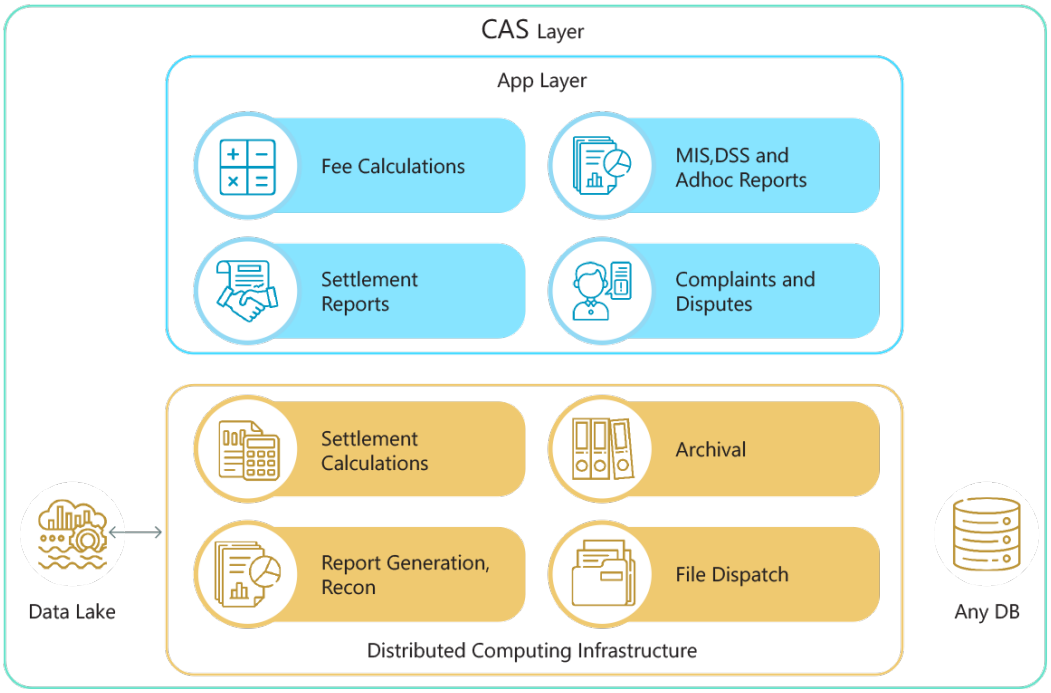
3.5-4K TPS

ingestion rate supported

300%

improvement in efficiency by using distributed data services technology

Functional Component Architecture



Differentiators

Supports both net-deferred and prefunded model settlement model.

Liquidity monitoring and dynamic liquidity management [in roadmap].

Real-time multilateral net clearing between the participants.

Configurable several settlement cycles per day through a web-based GUI.

Generate settlement instructions in standard formats (ISO20022/Swift).

Generate and export settlement instructions in multiple file formats to be further processed manually.

Settlement for both direct and indirect participants.

Reconciliation and regulatory reporting.

Fees and charges calculation.

Demonstrated track record

The bill payment network of India, Bharat Bill Payment System (BBPS), exclusively built by RS Software, is growing at a CAGR of 500%, resulting in top-line growth for bill payment aggregators while transforming the bill payment experience for billion+ people. One of the most successful use cases globally for Request for Pay. RS SettleEdge™ enables the BBPS platform to support a throughput of 5,000 TPS (transaction per second) by ensuring the clearing and settlement system delivers a high ingestion rate ranging from 3500 to 4000 TPS.

RS Software led the innovation for the world's largest card scheme in re-architecting their Clearing and Settlement system. The solution offered the capability to process Clearing and Settlement for multiple products, including Credit, Debit, and Commercial card systems. Over two decades, RS Software delivered various clearing and settlement functionalities for client. All this resulted in a 300% improvement in efficiency using distributed data services technology.

About RS Software

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www.rssoftware.ai

North America | EMEA | APAC

ContactSettleEdge@rssoftware.com

46%

of global real-time payments in

2023

were processed on the payment systems built exclusively by RS Software