Mission Critical Software Development

15,000 TPS, Zero Downtime with Highly Parallel Loosely Coupled Architecture

One of the world's largest payment companies continues to experience double-digit, annual growth in payment and cross-border volumes across its network. The network processes transactions generated by billions of cards used at millions of merchants, ATMs and financial institutions around the globe. Estimates place the value of these transactions at trillions of dollars.

As a leader in its space, the company has always invested in infrastructure ahead of demand deploying new processors and geographically dispersed central processing complexes to ensure transactions would move consistently through the payment lifecycle regardless of where they originate. However, the company's leadership knew the continuing growth of electronic payments meant it needed to make even more strategic investments.

The company turned to its long-standing partner, RS Software, to plot a course for implementing a "Highly Parallel Loosely Coupled" (HPLC) system within an existing TPF operating environment. The HPLC design would support the use of multiple mainframes with connections to a single, TPF database. To ensure processing consistency, the RS Software application engineering team had to ensure that multiple processing complexes remained synchronized in real-time.

At the beginning of the RS Software project, the payment company's system was capable of processing 5,000 TPS with zero down time and minimal application and network latency. Today the system comfortably handles 15,000 TPS. However, given the anticipated growth in transactions, the company continues to invest in its future. Planning already has begun on a follow up project with RS Software to develop the strategy for a N-processor routing ecosystem.

RS Software is the leader in vertically integrated solutions involving the deployment and customization of software in highly complex, mission-critical payments environments. The company's exclusive focus on the payments industry for over 20 years forms the basis for its proprietary processes and methodologies that improve time to market for its clients. Its global delivery model and knowledge transfer disciplines ensure that its cross-culture experience enables maximum value to clients from start to finish.

For more information, please visit www.rssoftware.com.