Big 4 Australian Bank

Modernizing payment processing through event-driven architecture

FAST FACTS

Their Problem

They needed to modernize their payment processing to satisfy a government mandate.

How Solace Helped

They used Solace technology to upgrade their monolithic payment processing application to a microservices-based approach.

The Australian government has mandated that the banks improve their payment processing capabilities under the National Payments Processing initiative because of incidents involving system outages, delayed or lost transactions and more.

As more enterprises and industries accept electronic forms of payment and Australians become used to not carrying cash, this volume is expected to grow. As a result the bank needed to make sure they had a rock-solid solution in place to support this growth and be agile enough to accommodate new market trends.

Why They Picked Solace

The bank was a long-time IBM shop, so very experienced with MQ. They conducted a comprehensive bake off, and Solace came out on top because MQ couldn't scale to support the tens of thousands of connections required for the microservices approach they wanted to take, and their failover times were much longer than Solace – hours vs. minutes.

They also had experience with Kafka – both the open source and Confluent varieties – but experienced enough issues that they weren't confident trusting it with their mission-critical payment processing.

How They Benefited

The first thing they noticed when they deployed their service was that it required 30% less instances than the previous system, which happens to support *three times* as many transactions per second as the old application.

They also observed an 80% increase in performance in processing time, and have found their new system to be more robust, which has reduced outages and lost payments.

Finally, their new microservices-based system has made them more agile so they can more quickly respond to new market developments and business requirements.