

# Kaminario Delivers Outstanding Performance to Insurance and Financial Business Processes

## The Challenge

A leading insurance and financial company provides a wide variety of insurance, pension and financial assets management services products to its over 1.5 million individual and business customers. It needed to accelerate its business processing reengineering (BPR) application to create new and update existing insurance processes for its agents to better serve its customers. The existing BPR application's slow response time made it difficult for the agents to take quick action in changing policies and servicing their customers. The service level agreement (SLA) processes showed that agents were taking too long to decide on an action and to see the result; in some cases the process took more than 20 minutes to complete. This was due to slow disk I/O caused by latency. If the company could accelerate its BPR application, it could accelerate the business it was creating as a result of that application.

## The Solution

The company deployed Kaminario's K2 DRAM extreme performance storage appliance without any changes to or tuning of its infrastructure, application or database. It ran numerous statements, or "queries," to demonstrate the I/O performance improvement. For example, a critical SLA statement that previously ran for 22.5 minutes improved by a factor of 19 after using the Kaminario K2, finishing in less than 70 seconds. The final results demonstrated that the Kaminario K2 accelerated the average elapsed time of all the statements from 66 minutes to only 10 minutes, improving the time by a factor of seven.

In addition, the stability and reliability of the Kaminario K2 were tested, and there were no issues or errors reported. The company also deployed Oracle® Data Guide for the BPR application redundancy, maintaining the master copy on the Kaminario K2 to serve user/application requests while keeping a copy on another system. In case of a failure, the BPR application would continue working. The Kaminario K2 maintained the performance of the BPR application and ensured high availability for the overall BPR application environment. Given this improved environment, the company is evaluating other uses for its BPR application.

Kaminario enabled the insurance company to improve its application response time and availability without any changes to or tuning of its existing environment. Kaminario accelerated its BPR application and improved its SLAs, in turn improving its business.

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***"The Kaminario K2 gave us increased performance and availability of our business processes. These dramatic improvements give us to the ability to process more policies, deliver better service levels to our customers and grow our business."***

***— CIO, a Large Insurance and Financial Company***

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## Extreme Performance

The Kaminario K2 family of all solid-state SAN storage solutions accelerate high I/O, latency-sensitive applications by consistently delivering higher throughput, ultra-low latency and improved system utilization at a significantly lower cost and smaller footprint than legacy SAN storage.

- IOPS: 100K – 1.5M IOPS
- Throughput: 1 GB to 16 GBs
- Consistent performance for any workload, with no degradation over time
- Latency: Read: 120 µsec to 260 µsec; Write: 150 µsec

## Self-healing High Availability

K2 boasts full N+1 hardware redundancy and thus maintains operational status and data availability with no single point of failure. Fast and automatic recovery means a reduction in costs related to data loss and unavailability, including wasted IT services time in rebuilding data stores.

- Redundant system hardware and uninterrupted power supply (UPS)
- Internal data protection and resiliency with mirrored hard disk drives
- Automated hardware and data recovery while maintaining data integrity

## Modular, Cost-effective Scalability

K2 enables cost-effective growth — so you can start small and grow as you need more capacity and/or performance. K2 also maximizes storage utilization and extends the life of your storage infrastructure, increasing ROI and reducing TCO.

- Modular, scale-out architecture
- Scale performance and capacity independently
- Consolidate high I/O and latency sensitive applications on the K2 that you had on multiple servers

## Easy Installation and Management

K2's industry-standard components make it easy to install and maintain. Its storage system management makes it easier for IT staff to manage and control. K2 enables IT organizations to reduce operations, maintenance and service costs.

- Standard block device, fully transparent — no change to applications, database or data
- Single-system manageability
- Automatic data distribution quickly delivers extreme performance out of the box
- Fast deployment — less than one day to install



## Kaminario K2

Kaminario is a leading supplier of high performance all solid-state SAN storage. Its Kaminario K2 family of SAN storage solutions eliminate I/O bottlenecks and dramatically reduce latency to accelerate critical business applications at a significantly lower cost and smaller footprint than legacy SAN storage. The K2 is the first self-healing, highly available all solid-state SAN storage to give users the freedom to choose the right SSD media for their unique application workload and budget. The K2 supports millions of IOPS, tens of GB/s of throughput, extremely low latency, and all without compromising on enterprise reliability or ease of use. Kaminario K2 solutions are application, database and file-system agnostic. Kaminario K2 solutions are seamless to integrate and easy to deploy and maintain; installation and configuration can be done in less than one day. Kaminario is simply faster.

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