



## Press Release

### **KIOXIA and Aerospike Collaborate to Boost Database Performance**

*Testing Demonstrates Significant Improvements with Software and Storage Class Memory Capabilities*



**Düsseldorf, Germany, 27 July 2022** – [KIOXIA Europe GmbH](https://www.kioxia.com/en) today announced that it has collaborated with Aerospike to enhance Aerospike’s Community Edition database. This has resulted in a 36% increase in application performance compared to the original software without the enhancements from KIOXIA. Testing was performed on KIOXIA FL6 Series enterprise NVMe Storage Class Memory (SCM) SSDs with a software enhancement developed by KIOXIA.

The Aerospike database is optimized to run on flash and SSD devices, and is capable of providing high throughput and low latency on flash.

“At Aerospike, we appreciate industry collaboration efforts with companies such as KIOXIA to continually improve our products,” noted Aerospike’s Paul Jensen, vice president of Technology and Infrastructure Partners. “In working with KIOXIA and testing the application software patch,

we have achieved a notable improvement in the performance of our Community Edition database.”

Featuring the KIOXIA SCM solution, XL-FLASH, the PCIe 4.0 and NVMe 1.4 compliant KIOXIA FL6 Series SSDs bridge the gap between DRAM and TLC-based drives. This means they are well-suited to latency-sensitive use cases such as caching layer, tiering and write logging. Already in mass production, the dual-port FL6 drives deliver high endurance (60DWPD) and are available in capacities up to 3,200GB.

“KIOXIA’s developments don’t stop at the broad SSD product portfolio we currently provide to datacenters. We are also committed to drive forward with innovative solutions that will improve storage latency and application performance,” added Paul Rowan, vice president of SSD marketing and engineering at KIOXIA Europe GmbH. “Thanks to close collaboration with Aerospike, we have fully realized the potential of our low latency FL6 Series SCM SSDs, addressing the performance gap between existing volatile memories and NAND Flash through our XL-FLASH solution.”

Detailed Aerospike testing results will be presented during the KIOXIA keynote address on Tuesday, 02 August, 11 am at the [Flash Memory Summit](#).

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**Notes:**

\*The following trademarks, service and/or company names – PCIe, PCI Express, NVMe, NVM Express, NVMe-oF - are not applied, registered, created and/or owned by KIOXIA Europe GmbH or by affiliated KIOXIA group companies. However, they may be applied, registered, created and/or owned by third parties in various jurisdictions and, therefore, protected against unauthorised use. All other company names, product names and service names may be trademarks of their respective companies.

\*DWPD: Drive Write(s) Per Day. One full drive write per day means the drive can be written and re-written to full capacity once a day every day for five years, the stated product warranty period. Actual results may vary due to system configuration, usage and other factors. Read and write speed may vary depending on the host device, read and write conditions, and file size.

\*Definition of capacity: KIOXIA Corporation defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1Gb = 2<sup>30</sup> bits = 1,073,741,824 bits, 1GB = 2<sup>30</sup> bytes = 1,073,741,824 bytes and 1TB = 2<sup>40</sup> bytes = 1,099,511,627,776 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings,

software and operating system, and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

### **About KIOXIA Europe GmbH**

KIOXIA Europe GmbH (formerly Toshiba Memory Europe GmbH) is the European-based subsidiary of KIOXIA Corporation, a leading worldwide supplier of flash memory and solid-state drives (SSDs). From the invention of flash memory to today's breakthrough BiCS FLASH, KIOXIA continues to pioneer cutting-edge memory solutions and services that enrich people's lives and expand society's horizons. The company's innovative 3D flash memory technology, BiCS FLASH, is shaping the future of storage in high-density applications, including advanced smartphones, PCs, SSDs, automotive and data centers.

Visit our [KIOXIA website](#)

### **About Aerospike**

The Aerospike Real-time Data Platform enables organizations to act instantly across billions of transactions while reducing server footprint by up to 80 percent. The Aerospike multi-cloud platform powers real-time applications with predictable sub-millisecond performance up to petabyte-scale with five-nines uptime with globally distributed, strongly consistent data. Applications built on the Aerospike Real-time Data Platform fight fraud, provide recommendations that dramatically increase shopping cart size, enable global digital payments, and deliver hyper-personalized user experiences to tens of millions of customers. Customers such as Airtel, Criteo, Experian, Nielsen, PayPal, Snap, Wayfair, and Yahoo rely on Aerospike as their data foundation for the future. Headquartered in Mountain View, California, the company also has offices in London, Bangalore, and Tel Aviv.

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