First, let’s start with an NVM Express™ (NVMe™) SSD

NVMe SSDs are high performance, with low latency, and can come in capacities of 30.72 TB.

BUT… multiple NVMe SSDs in a server are stranded and cannot easily be shared.

NVM Express over Fabrics (NVMe-oF™) technology to the rescue

NVMe-oF technology connects NVMe SSDs over a network natively with minimal overhead via standards-based network transport protocols, such as RDMA and TCP that run over Ethernet, Infinibard or Fibre Channel.

NVMe-oF technology enables disaggregated storage and compute architectures that deliver

- NVMe SSD performance with minimal overhead
- Storage and compute that scales independently
- Flexible storage capacity carved out from a large pool of flash

KIOXIA Products Ready for NVMe-oF Architectures

Data Center and Enterprise SSDs

- Enterprise NVMe SSDs
- For enterprise server and storage use cases
- 1.8-inch form factor
- 1 and 3 drive writes per day
- Capacities up to 30.72 TB

- Data center NVMe SSDs
- For cloud and general purpose server use cases
- 2.5-inch form factor
- 1 and 3 drive writes per day
- Capacities up to 15.36 TB

KumoScale™ Storage Software for On-premises Clouds

- Disaggregates and abstracts NVMe SSDs for NVMe-oF deployments
- Runs on standard storage system hardware
- Creates fast, networked NVMe flash storage as a service
- Works in orchestrated and containerized environments

© 2021 KIOXIA Corporation. All rights reserved. Information in this document, including product pricing and specifications, content of services, and contact information is current and believed to be accurate on the date of the announcement, but is subject to change without prior notice. Technical and application information contained here is subject to the most recent applicable KIOXIA product specifications. PCI Express and PCI are registered trademarks of PCI-SIG. NVMe and NVMe-oF are registered or unregistered marks of NVM Express, Inc. in the United States and other countries. All other company names, product names and service names may be trademarks of their respective companies. Moonman of Tugabo™ on 1 November 2021 (LT+09). For performance measurements, read and write speeds may vary depending on the host device, read and write conditions and file size.