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“My path to Infinidat has given me insights about the evolution of storage and the competitive landscape. I had spent 12 years at EMC and, more recently, I was heading up sales for Hitachi’s storage business in northern EMEA. As I have seen the changing needs of enterprise customers for storage, I did extensive research before I made my move.

Did I know something about this AI-based storage company called Infinidat that others do not know yet?

The answer is yes, I believe I do. What I uncovered is that Infinidat is laser-focused with the best-quality storage solutions at scale that incorporate AI technology on the planet today. This sets Infinidat apart. And it’s important not to underestimate the importance of this focus.”

[Richard Bradbury](#), SVP, EMEA & APJ [Infinidat](#)



4 Ways Multi-Protocol Can Maximize Flash Value

G2M
RESEARCH

[View the Recording Here](#)

KIOXIA

Webinar Series: Part 3

**NVIDIA Acquires
Excelero**



nVIDIA®

Excelero

Excerpt from NVIDIA's [announcement](#) of the acquisition of Excelero:

[Excelero](#), a Tel Aviv-based provider of high-performance software-defined storage, is now a part of NVIDIA. The company's team of engineers — including its seasoned co-founders with decades of experience in HPC, storage and networking — bring deep expertise in the block storage that large businesses use in storage-area networks.

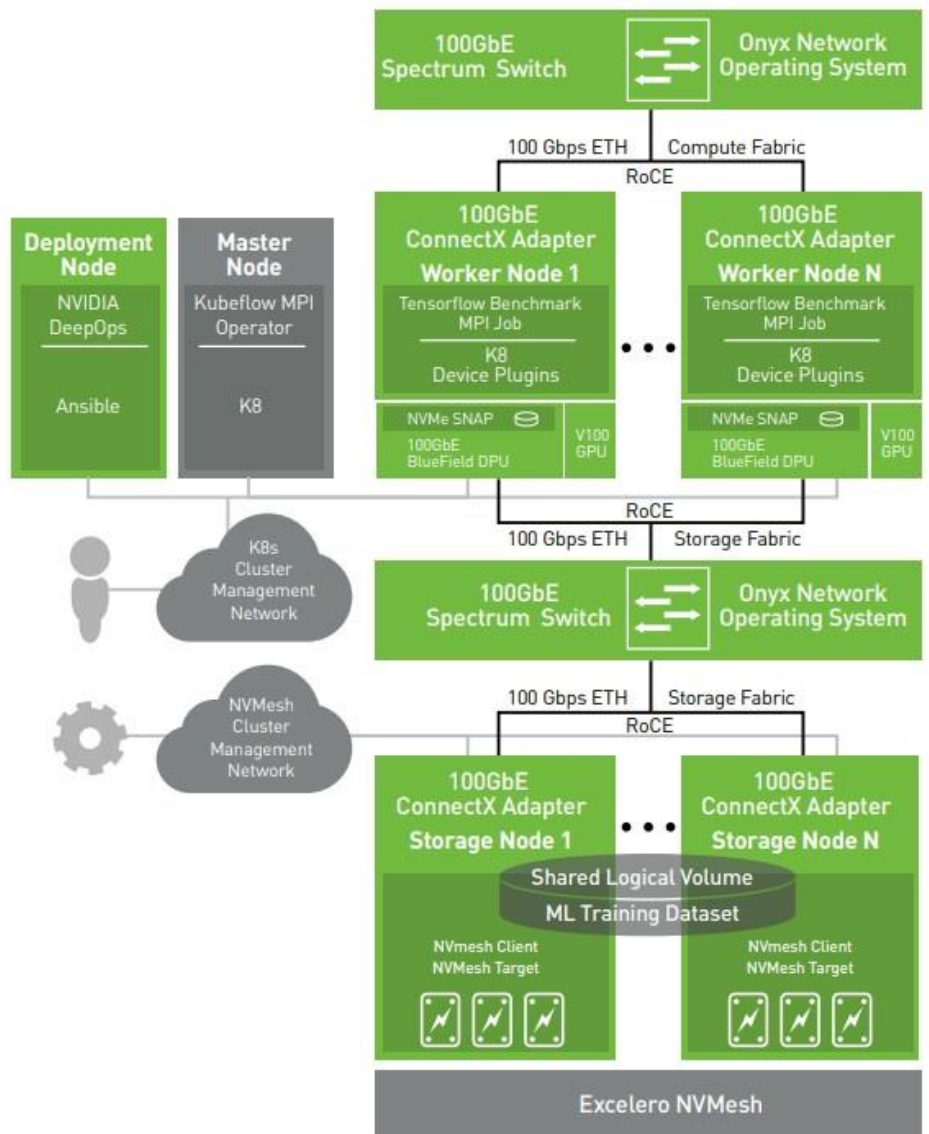
Now their mission is to help expand support for block storage in our enterprise software stack such as clusters for high performance computing. Block storage also has an important role to play inside the DOCA software framework that runs on our DPUs.

“The Excelero team is joining [NVIDIA](#) as demand is surging for high-performance computing and AI,” said [Yaniv Romem](#), CEO and co-founder of Excelero. “We’ll be working with NVIDIA to ensure our existing customers are supported, and going forward we’re thrilled to apply our expertise in block storage to NVIDIA’s world-class AI and HPC platforms,” he added.

Founded in 2014, Excero developed NVMesh, software that manages and secures virtual arrays of NVMe flash drives as block storage available across public and private clouds.

Excero’s software has won praise from users for its high throughput, low latency and support for Kubernetes containers. It’s also attracted collaborations with major cloud service providers.

The company has been an NVIDIA partner since its early days, attracting the former Mellanox, now part of NVIDIA, as an investor. We collaborated on accelerating storage with RDMA, a key technology at the heart of both InfiniBand and RoCE (Ethernet) networks.”



[Storage Review’s assessment](#)

included:

Excero provides scalable, high-performance storage solutions for customers deploying systems with AI/ML, HPC, database acceleration, and analytics workloads. Excero’s software delivers a new level of storage capabilities to public clouds. NVMesh, Excero’s flagship product, transforms NVMe drives into enterprise-level protected storage supporting any local or distributed file system. With data center scalability, NVMesh provides data protection and continuous monitoring of stored data.

With the acquisition, NVIDIA adds deep expertise in block storage and HPC workloads. Block storage also has an important role to play inside the DOCA software framework that runs on DPUs. The company has been a partner of NVIDIA early on, collaborating on accelerating storage with RDMA, a key technology at the heart of both InfiniBand and RoCE (Ethernet) networks. That partnership attracted Mellanox, now a part of NVIDIA, as an investor.

**KIOXIA Announces 2nd Generation
24G SAS SSD
Focus on Performance & Security**

KIOXIA

[KIOXIA America, Inc.](#) NIST FIPS 140-2-Certified PM7 Series Leverages Latest BiCS FLASH 3D Flash Memory Technology. KIOXIA announced that its PM7 Series of enterprise SAS SSDs is available for customer evaluation. KIOXIA was the first¹ to bring 24G SAS to server and storage applications, and now the PM7 Series, its 2nd generation of 24G SAS SSDs, furthers KIOXIA's position as a SAS market leader. Targeted at enterprise applications and use cases – including high-performance computing, artificial intelligence, caching layer, and financial trading and analysis – the new drives bring improved performance, reliability and security to enterprise servers and storage. With an emphasis on security, the PM7 Series is FIPS2 140-2 certified and currently under test for FIPS 140-3 certification.

Designed for modern IT infrastructures, 24G SAS (SAS-4) doubles effective bandwidth over 12Gb/s SAS (SAS-3). Featuring KIOXIA's 5th generation BiCS FLASH™ 3D TLC flash memory, the PM7 Series delivers sequential read performance of up to 4.2 Gigabytes (GB) per second (GB/s), 720K random read IOPS and up to 355K random write IOPS. The new KIOXIA drives are available in capacities up to 30.72 terabytes (TB), making them the industry's highest capacity³ 2.5"4 SAS SSD.

The PM7 Series builds upon KIOXIA's history of high performance and reliability over seven generations of SAS drives, nearly doubling the performance of the KIOXIA 12Gb/s SAS SSDs and realizing up to 20% performance gains over its previous generation 24G SAS SSD.

Additional features include: 1) Dual-port for high-availability; 2) Flash Die Failure Protection – a KIOXIA feature that allows for transparent disabling of a failing flash chip, while maintaining full reliability at the SSD level, 3) Endurances for a wide range of workloads; read-intensive (1 DWPD⁵) and mixed-use (3 DWPD); 4) Security options available, including sanitize instant erase (SIE⁶), TCG Enterprise self-encrypting drive (SED⁷) and FIPS 140-2 certification.

FIPS 140-3 certification is in process and is expected to be completed in 2022.

“As active members of the T10 and SCSI Trade Association industry groups that head up and define SAS development efforts, KIOXIA is proud to be leading the transition to 24G SAS,” said [Neville Ichhaporia](#), Vice President, SSD marketing and product management, KIOXIA America, Inc. “Our SSD portfolio for the data center is the broadest in the industry, and the addition of the PM7 Series is more proof of our commitment to drive innovation and development of the widely deployed and trusted SAS interface.”



[Lenovo](#) announced its partnership with [Formula 1](#) to “push the boundaries of what’s possible when combining sports with advanced technology.” Lenovo’s hardware devices, as well as High Performance Computing and server solutions, will be integrated throughout the organization’s operations to run on-premises data collection solutions to higher quality content and supporting broadcast applications.

Formula 1 plans to leverage Lenovo’s extensive selection of premium hardware as well as innovative next-generation technology such as augmented and virtual reality, as F1 continues to connect fans with the sport in new and more engaging ways.

[Stefano Domenicali](#), President & CEO of Formula 1:

“As we prepare for our record-breaking season, it is exciting to welcome Lenovo to the team and for us to join forces with a global leader in technology. Like everything in Formula 1, precision and detail are everything, and Lenovo will be at the forefront of providing their experience and innovative technologies to our operations throughout the season. Our fans expect the best from everything we do, and Lenovo is the perfect partner in terms of its premium hardware offerings. We are entering a new era of our sport and we’re committed to delivering a high-quality experience for our dedicated followers around the world.”

[Yang Yuanqing](#), Chairman & CEO of Lenovo:

“We are proud to announce our new global partnership with Formula 1, the world’s most prestigious motor racing competition, to engage half a billion fans all over the world with exciting, innovative experiences. This partnership is based on our shared passion for innovation, performance, and the winning spirit. Together Lenovo and Formula 1 will push the limits of technology to help shape a faster, smarter, and more sustainable future.”

[Luca Rossi](#), President of Intelligent Devices Group, Lenovo:

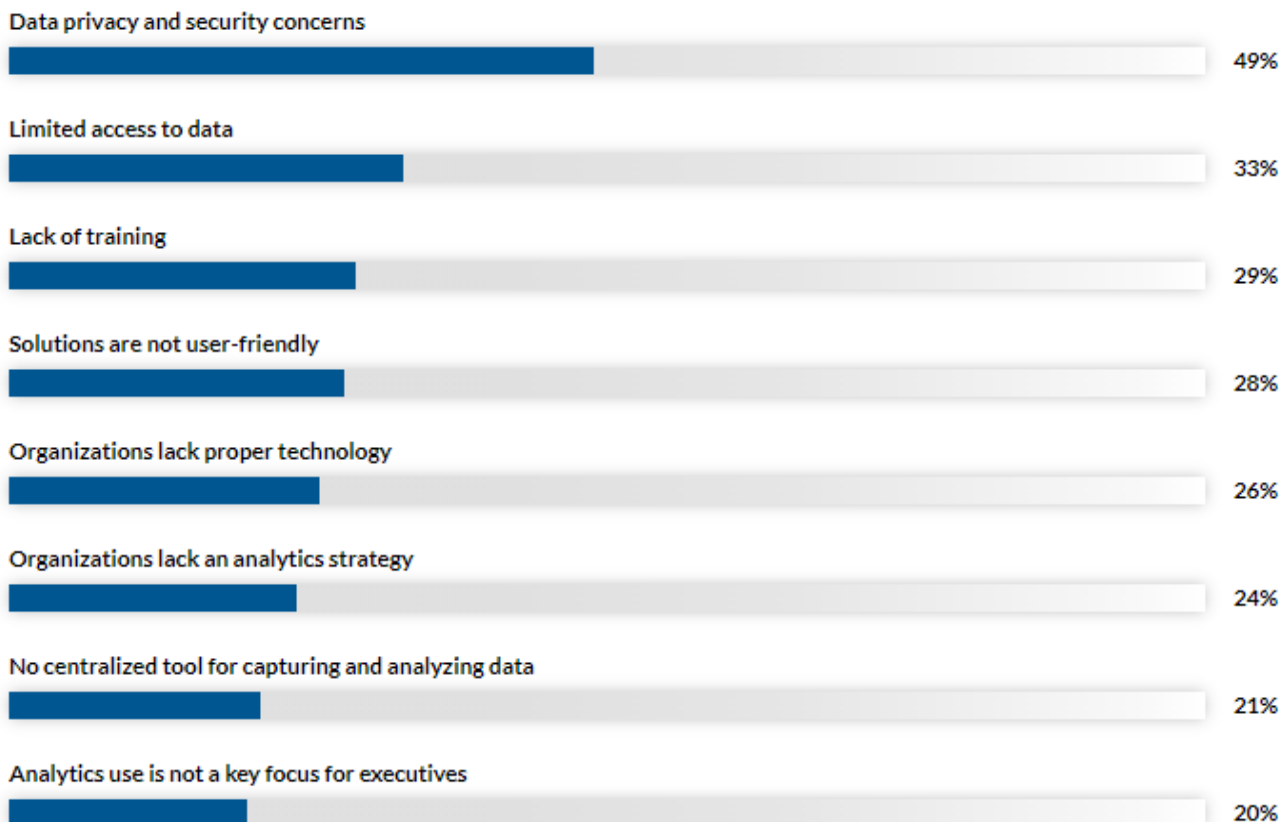
“Partnering with Formula 1 to deploy Lenovo’s smarter solutions across the organization, from base operations to the stunning excitement of the Grands Prix, will help push the boundaries of what is possible and transform the racing experience. Formula 1 is focused on its digital transformation and continuing to surprise and delight its fans. Lenovo’s portfolio of hardware, services and solutions will be key to helping Formula 1 create new ways for fans around the world to experience the same thrills you’d experience track side.”

“Try never to be the smartest person in the room. And, if you are, I suggest you invite smarter people or find a different room.”

[Michael Dell](#), CEO & Chairman, [Dell Technologies](#)



Barriers to the Effective Use of Analytics



KIOXIA Webinar Series

Tuesday, February 8, [KIOXIA](#) provided an analysis of “4 Ways Multi-Protocol Can Maximize Flash Value.” The webinar video is available to view [here](#) and the slidedeck is available [here](#).

KIOXIA industry expert, Earle Philhower explains how flash memory revolutionized the data center by being backwards compatible with legacy hard drive protocols. However, in certain applications that backwards compatibility limits how valuable flash memory can be. In order to improve TCO and maximize performance and storage utilization, multiple unique and incompatible flash storage protocols have been developed. Unfortunately, managing all these different drive types at cloud scale can be a challenge.

This was the third in a four part webinar series to dive deeper into learning how an open-source, software-defined approach to flash protocols can deliver better economics, increased deployment flexibility and simpler supply management.

Each webinar stands alone and collectively provides an overview of the innovation, direction, and leadership [KIOXIA](#) provides in this enterprise storage space.

November 17, KIOXIA presented the second webinar in their four-part webinar series, “[The Next Flash Revolution at Scale: Open Source Software + Software-Enabled Technology.](#)” The video is available to [view](#) and a copy of the slidedeck is available [here](#). KIOXIA webinar Part 1, “[Why Flash Memory At Scale Should be Software-Defined](#)” is available to view [here](#) along a copy of the slidedeck [here](#).

4 Ways Multi-Protocol Can Maximize Flash Value

Earle F. Philhower, III
KIOXIA America, Inc.



Upcoming Conferences

March 23-24	Paubox SECURE 2022 , Vegas
March 28-31	Data Center World , Austin
April 19-21	ODSC East , Boston
April 23-27	NAB , Vegas
April 26-28	Smart NICs Summit , San Jose
May 4-5	World Summit AI Americas , Montreal
May 9-11	Gartner Data & Analytics Summit , London
May 10-13	Black Hat Asia , Singapore
May 11-12	AI & Big Data Expo , Santa Clara
May 11-12	Cyber Security & Cloud Congress , Santa Clara
May 18-19	Gartner Digital Workplace Summit , London
June 6-9	RSA Conference , San Francisco & Virtual
June 7-10	Women in Tech Global Conference 2022 , TBA & Virtual
June 12-16	Cisco Live , Vegas
June 14-16	Digital Enterprise Show , Malaga
June 15	Cloud Security Summit , Virtual
June 21-22	Gartner Security & Risk Management Summit , Sydney
June 21-22	Gartner Digital Workplace Summit , San Diego
June 29- July1	Mobile World Congress , Shanghai
July 19-20	Cyber Solutions Summit & Expo , Virtual
August 2-4	Flash Memory Summit , Santa Clara

August 6-11	Black Hat USA , Vegas
August 11-14	DEF CON 30 , Vegas
September 13-14	CISO Forum , Virtual
September 19-20	Industry of Things World , Berlin
September 28-29	IoT World , Santa Clara
October 5-6	Evolve , Vegas
October 24-27	ICS Cybersecurity Conference , Hybrid/Virtual
November 16	San Diego Cybersecurity Conference , Hybrid
November 16	Threat Hunting Summit , Virtual
November 18-19	Data Strategy & Insights (Forrester Research), Virtual
December 1-2	AI & Big Data Expo Global , London
December 6	Security Operations Summit , Virtual

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