

Quantum Announces Scalability Enhancements to its Myriad All-flash File System

New capabilities include incremental in-place scaling, dynamic data leveling, and ultra high-density drives for unmatched simple scalability

SAN JOSE, Calif.--(BUSINESS WIRE)-- Quantum Corporation (NASDAQ: QMCO) today announced scalability enhancements to its [Quantum Myriad® all-flash file system](#), making it the first solution to offer incremental, in-place system scaling with dynamic, automatic data leveling. These advancements deliver unmatched flexibility and adaptability in a modern, all-flash file system so customers can meet their evolving storage requirements in the era of AI.

The new scalability features enable customers to start with as few as five partially populated NVMe Storage Server nodes, then expand in increments of one or more nodes at a time with the additional storage available in minutes, with no need for admin intervention, and no impact or interruption to user operation. Customers will be able to continue adding nodes as their needs grow, increasing capacity while maintaining linear performance with automatic data leveling across all nodes as new Storage Server nodes are added.

This approach provides more immediately usable storage per node, eliminates the need for disruptive forklift upgrades, and empowers organizations to expand their storage on the fly—ensuring continuous operation and seamless scalability to meet growing demands. Even when starting with only 5–10 nodes, customers can expect to get up to 80% usable capacity with n+2 data protection. In follow-on releases, Myriad is expected to grow to 20 nodes and eventually deliver virtually unlimited scalability with the same up to 80% usable capacity and n+m data protection across all nodes.

“At Entanglement, we’re pushing the boundaries of what’s possible, by fusing next-gen computing, quantum computing-inspired algorithms and AI/ML, tackling problems once deemed unsolvable,” said Jason Turner, Chairman & CEO, Entanglement, Inc. “Myriad’s unique architecture provides the scalability and performance we need to support our relentless pursuit of innovation and speed. The ability to expand storage to optimize our pipeline without downtime or disruption ensures that we can accelerate the development of our next-generation AI and deep learning capabilities.”

“Myriad’s innovative architecture has been designed from the ground up to deliver unmatched performance, scalability, and flexibility,” said Ben Jarvis, Technical Director, Quantum. “With the ability to add bare-metal storage nodes one at a time and have them online in just minutes with support for dynamic n+m data protection and data leveling, Myriad stands apart from traditional NAS systems. These capabilities give customers the best of all worlds: high immediate usable capacity and the freedom to seamlessly expand their storage as requirements evolve, maintaining high performance and reliability for mission-critical data sharing—whether via SMB, NFS or using our direct client for GPU workflows—while

supporting cutting-edge AI/ML pipelines and data-intensive HPC workloads.”

With this announcement, Myriad supports leading technologies and capabilities that give customers the most choice as they scale and evolve their critical storage infrastructure. This includes support for 400 GbE RDMA infrastructure, support for up to 10 NVMe Storage Server Nodes, and additional new drive options including 61.44 TB and 122.88 TB Solidigm™ D5-P5336 QLC drives.

“Quantum’s Myriad file system exemplifies the ability to seamlessly adopt critical storage technologies like the Solidigm 61.44 TB and 122.88 TB NVMe drives using QLC technology, offering customers access to a rich ecosystem of high-performance, high-capacity storage options,” said Roger Corell, Senior Director, AI and Leadership Marketing, for Solidigm. “This adaptability helps organizations integrate cutting-edge advancements into their infrastructure, selecting the best technology available while massively consolidating rack space and realizing power and cooling savings. We are excited to see Myriad deliver innovation in scalable, next-generation storage solutions.”

These new drives offer extraordinary density, enabling Myriad storage capacities of up to 6 PB in five rack space units (5U) and 12 PB in 10U. With Myriad’s automatic inline data compaction and deduplication that deliver up to 20x data reduction rate, customers could achieve effective storage capacity of up to 240 PB with 10 nodes, and nearly half an exabyte or 480 PB in 20 nodes, delivering astonishing density and reduction in rack space and operational costs.

To further support AI/ML pipelines and other data-intensive workloads, Myriad will also offer seamless integration with [Quantum’s ActiveScale® object storage](#) for large dataset ingest, integrated archiving, recall, and data lake operations.

The new scalability features will include:

- **Partially populated NVMe Storage Server Nodes** to allow more initial and expansion flexibility choices, starting with a minimum of four NVMe drive modules per NVMe Storage Server Node. The remaining open NVMe drive module slots can be populated as needed.
- **Additional high-density drive choices of 61.44 TB and 122.88 TB** for greater density and infrastructure savings, starting with Solidigm™ D5-P5336 61 TB and 122 TB NVMe drives.
- **Incremental, no downtime scaling support of up to 20 NVMe Storage Server Nodes** in future releases and ultimately, virtually unlimited scalability with expanding intelligent fabric leaf nodes.
- **Up to 400 GbE Ethernet RDMA compatibility** to support the highest available cluster performance.
- **Integrated archive and recall with ActiveScale** to build seamless, expanding data lakes.

The new features are expected to be available in the second half of 2025. For more information on Myriad, visit www.quantum.com/myriad.

** Quantum Myriad customers will see variable compression rates ranging from 2X-20X or higher depending on the data type.*

About Quantum

Quantum delivers end-to-end data management solutions designed for the AI era. With over four decades of experience, our data platform has allowed customers to extract the maximum value from their unique, unstructured data. From high-performance ingest that powers AI applications and demanding data-intensive workloads, to massive, durable data lakes to fuel AI models, Quantum delivers the most comprehensive and cost-efficient solutions. Leading organizations in life sciences, government, media and entertainment, research, and industrial technology trust Quantum with their most valuable asset – their data. Quantum is listed on Nasdaq (QMCO).

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Forward-Looking Information

The information provided in this press release may include forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 (“Exchange Act”). These forward-looking statements are largely based on our current expectations about product roadmaps, product features, future events and customer trends affecting our business. Such forward-looking statements include, in particular, statements related to: product roadmaps and feature sets.

These forward-looking statements may be identified by the use of terms and phrases such as “anticipates”, “believes”, “can”, “could”, “estimates”, “expects”, “forecasts”, “intends”, “may”, “plans”, “projects”, “targets”, “will”, and similar expressions or variations of these terms and similar phrases. Additionally, statements concerning future matters and other statements regarding matters that are not historical are forward-looking statements. Investors are cautioned that these forward-looking statements relate to future events or our future performance and are subject to business, economic, and other risks and uncertainties, both known and unknown, that may cause actual results, levels of activity, performance or achievements to be materially different from those expressed or implied by any forward-looking statements.

These forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those projected, including without limitation, the following: risks related to the need to address the many challenges facing our business; the impact macroeconomic and inflationary conditions on our business, including potential disruptions to our supply chain, employees, operations, sales and overall market conditions; the competitive pressures we face; risks associated with executing our strategy; the distribution of our products and the delivery of our services effectively; the development and transition of new products and services and the enhancement of existing products and services to meet customer needs and respond to emerging technological trends; estimates and assumptions related to the cost (including any possible disruption of our business); expectations around product roadmaps and future feature sets, and other product development issues, including but not limited to the items discussed in “Risk Factors” in our filings with the Securities and Exchange Commission (the “SEC”), including our Annual Report on Form 10-K filed with the Securities and Exchange Committee on June 28, 2024, and any subsequent reports filed with the SEC. We do not intend to update or alter our forward-looking statements, whether as a result of new information, future events or otherwise, except as required by applicable

law.

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