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Dell Technologies Storage Software Innovations Power New Levels of Automation, Security and Multi-Cloud Flexibility

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News summary

- More than 500 Dell storage portfolio software advancements improve intelligence, automation, data mobility and security across clouds, on-premises and edge environments with no additional cost to existing customers
- Dell PowerStore enhancements deliver up to 50% better application performance, 66% more capacity, enterprise file enhancements and new VMware integrations
- Dell PowerMax software increases cyber resilience, doubles performance of new end-to-end NVMe architecture, and automates storage operations
- Dell PowerFlex introduces file services to simplify workload consolidation and adds file support for all major container orchestration platforms

Full story

Dell Technologies (NYSE: DELL) is enhancing software across its industry-leading[1] storage portfolio, driving increased intelligence, automation, cyber resiliency and multi-cloud flexibility.

"Organizations all over the world look to Dell to help them move faster while turning their data into a competitive advantage," said Jeff Clarke, vice chairman and co-chief operating officer, Dell Technologies. "We're delivering major software innovation across our portfolio to help customers make the most of their data and resources."

Introducing Dell storage software innovations

More than 500 software advancements across Dell PowerStore, PowerMax and PowerFlex deliver faster data insights, better multi-cloud data control and increased cyber resiliency at no cost to existing customers. These advancements are the latest examples of Dell storage software innovation following the introduction of Project Alpine, which will bring the enterprise capacity, performance and protection of Dell storage software to public clouds.

"IQVIA uses the power of data science to help customers accelerate clinical development and healthcare outcomes," said Ken Boyer, director of global storage, IQVIA. "Driving transformative outcomes requires an infrastructure partner just as focused on innovation. Dell Technologies storage delivers the automation, security, performance and scale we need as we reimagine life sciences."

Dell PowerStore, the fastest ramping new architecture in company history, will deliver up to a 50%[2] mixed workload performance boost and up to 66%[3] greater capacity. Customers can better plan business continuity strategies with software-only high availability metro replication configured in as few as five clicks. Additional software advancements make it possible for organizations to:

- Better support and secure file workloads with file level retention, native file replication and support for third-party file monitoring and ransomware protection.
- Take advantage of deeper VMware integrations including improved VMware vSphere® Virtual Volumes ™(vVols) latency and performance plus simplified disaster recovery with vVols replication, VM-level snapshots and fast clones.
- Maximize performance of new hardware with end-to-end NVMe support and increased networking speeds.

Dell PowerMax, the world's most secure, mission-critical storage,[4] will introduce cyber resiliency advancements including cyber vaults for traditional and mainframe deployments. CloudIQ ransomware capabilities help detect cyberattacks early to minimize exposure and speed recovery. PowerMax now offers up to 65 million secure snapshots to improve cyber recovery and increases efficiency with new 4:1 data reduction guarantee.[5] Additional software-driven updates help organizations:

- Increase productivity with automated storage operations such as multi-array smart provisioning, workload optimization, and health monitoring and remediation.
- Quickly move data to public clouds with faster cloud snapshot shipping and recovery, built-in high availability to minimize downtime and easy restore of cloud-based object storage data.
- Experience double the performance[6] with up to 50% better response times[7] in demanding application and mainframe environments on two new NVMe-based PowerMax models. Anytime Upgrade customers are eligible for non-disruptive upgrades.

Dell PowerFlex software-defined infrastructure will consolidate traditional and modern workloads with new file services that allow for unified block and file capabilities on a single platform. PowerFlex simplifies multi-cloud and DevOps with the broadest file and block[8] support for all major Kubernetes and container orchestration platforms from Amazon, Google, Microsoft, Red Hat, SUSE and VMware. Additional updates allow customers to:

- Realize greater TCO savings by consolidating traditional and containerized workloads using unified block and file storage services across bare metal and virtualized deployments.
- Simplify PowerFlex deployment through NVMe-over-TCP connectivity with consistent standards-based storage networking.
- Streamline operations with new unified compute, storage and system lifecycle management capabilities within PowerFlex Manager software.

"Organizations are increasingly seeking IT infrastructure that delivers a cloud-like experience wherever their data lives," said Eric Burgener, research vice president, Infrastructure Systems, Platforms and Technologies Group, IDC. "Dell has designed these sweeping software and hardware enhancements across its comprehensive, multi-cloud infrastructure portfolio to deliver that experience with greater automation, security and control."

"Our customers choose Dell Technologies storage because it is trusted and delivers meaningful innovation that helps organizations keep pace with the changing business and IT landscape," said Mike Heintzelman, vice president, Advanced Solutions, TD Synnex. "The significant software innovations introduced across the Dell storage portfolio will help organizations simplify IT operations, innovate securely and get more value from their data."

Availability

- Dell PowerStore, PowerMax, and PowerFlex advancements have planned global availability in the third quarter of 2022.

Additional resources

- Dell Technologies Expands Multi-Cloud Experiences Across Cyber Recovery, Data Analytics and Partner Ecosystem
- Three Ways Software-Driven Innovation Powers the Storage Experience
- Connect with Dell via Twitter and LinkedIn

About Dell Technologies
Dell Technologies (NYSE:DELL) helps organizations and individuals build their digital future and transform how they work, live and play. The company provides customers with the industry's broadest and most innovative technology and services portfolio for the data era.

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1. IDC WW Quarterly Enterprise Storage Systems Tracker, 2021Q4, March 11, 2022 – Vendor Revenue.
2. Based on internal tests comparing PowerStore 1200T peak IOPS with PowerStore OS 3.0 vs. PowerStore 1000T with PowerStoreOS 2.1, running 70/30 read/write mix, 8k block size. March, 2022. Actual results may vary.
3. Maximum effective capacity for largest PowerStore cluster with PowerStoreOS 3.0 vs. PowerStoreOS 2.0. Assumes average 4:1 data reduction. Actual results vary.
4. Based on Dell internal analysis of cybersecurity capabilities of Dell PowerMax versus cybersecurity capabilities of competitive mainstream arrays supporting open systems and mainframe storage, March 2022.
5. Based on Dell 's Future-Proof program that offers 4:1 data reduction guarantee based on PowerMax data reduction tools (dedupe and data compression) for open systems storage, March 2022. Actual data reduction rates will vary.
6. Based on Dell internal testing using the Sequential Read Hits (128K) GB per second, and IOPS per FC port benchmarks (within a single array) comparing PowerMax 8500 to PowerMax 8000, March 2022. Actual performance will vary.
7. Based on Dell internal testing using the OLTP benchmark comparing the PowerMax 2500 against the PowerMax 2000, March 2022. Actual response times will vary.
8. Based on Dell analysis of integrated systems for Kubernetes distributions, March 2022.

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