



SOLUTION BRIEF

Ultrastar® Storage Platforms Provide Economical Storage Capacity for Commvault Environments



Highlights

- **Breakthrough Economics:** Offers a cost-effective solution that reduces power, cooling and licensing costs and makes backup repositories simple, scalable and affordable
- **Capacity Where It Is Needed:** Expands backup and archive capacity while freeing space on expensive tier-1 storage
- **Simple Scalability:** Enables simple scalability in the future as needed to keep pace with rapid data growth

Challenges

- **Increasing Demands:** Exploding data rates are pushing backup infrastructures to store more data for longer periods of time, often within a flat or shrinking IT budget
- **Management Difficulties:** Inflexible legacy solutions can't keep pace with data growth, resulting in silos of data that are complex, expensive and costly to manage
- **Skyrocketing Costs:** Keeping pace with explosive data growth is driving up OPEX costs related to powering, cooling and managing multiple silos of data storage

Solution

The combined solution of Commvault® Backup and Recovery with Western Digital Ultrastar® storage platforms provides protection and rapid recovery of business-critical data across hybrid physical, virtual and cloud environments with a highly reliable, easily scalable and economical data protection environment that makes data backup and archiving simple and affordable.

Data Is Your Most Valuable Asset

We're living in an era of digital transformation, where the accessibility of emerging digital technologies enable you to reimagine your business in new ways. Leveraging your data can help you create new experiences, new products and new services with greater efficiency. Data is the engine of your digital transformation and is your most valuable asset. Your organization depends on data to be instantly available and secure, wherever and whenever you need it. And in an always-on world, the financial and business impact of unplanned downtime and data loss could prove catastrophic.

The Escalating Data Protection Challenge

One of the most common challenges for enterprises is dealing with exponential data growth. With growth come several data management challenges—meeting stringent backup and recovery service-level agreements (SLAs), keeping up the desired recovery point objectives (RPOs) and recovery time objectives (RTOs), and simplifying and enhancing remote office protection. IT organizations are challenged to do more with limited budgets and fewer IT resources. Meeting these pain points requires a paradigm shift towards optimized data protection.

Breaking Down Data Protection Barriers

As a leader in storage, Western Digital is working with Commvault to deliver innovative solutions that modernize backup and recovery environments to enable complete protection and delivery of the agreed SLAs. Western Digital offers a scale-up and scale-out architecture that provides more backup capacity in the same footprint and enables cost-effective protection of data. This high-density storage solution offers multiple advantages for backup to disk compared to traditional tape, NAS and virtual tape library approaches.

A Simple, Scalable Backup And Recovery Solution

Backup and Recovery doesn't have to be so complicated. By combining industry-leading Commvault Backup & Recovery with Western Digital Ultrastar storage platforms, you can add scalable, highly reliable capacity to backup repositories and archives easily and affordably. Ultrastar storage platforms connect directly to Commvault Backup and Recovery servers with a direct SAS connection. Within seconds, servers can start offloading data to the repository—no complicated configurations or complex architectures required.

The Ultrastar storage platform makes it easy and inexpensive to increase capacity. Start with as few as 12 HDDs and scale all the way up to 2.0 petabytes¹ (raw) as your backup repository grows—all in a compact 4U form factor. And, if you find you need even more capacity, daisy-chain four Ultrastar storage platforms together to expand to multiple petabytes of storage at a fraction of the cost of other solutions.

¹One GB is equal to one billion bytes and one TB equals 1,000GB (one trillion bytes). Actual user capacity may be less due to operating environment.

A Winning Partnership for Backup and Recovery

Commvault is an industry leader in data protection, making it simple to provide fast, reliable backups for all your workloads. But what's the best storage hardware for offloading data to a scalable backup repository or long-term archive? In this stage of the data lifecycle, blazing-fast performance and advanced feature sets aren't the top priorities. Instead, most organizations want something simple and economical—storage capacity they can plug right into the server cluster, that just works.

Western Digital Ultrastar storage platforms provide the perfect direct-attached storage (DAS) solution. This family of "just a bunch of disks" (JBOD) platforms combines excellent density, strong performance and flexible capacity in a simple, affordable solution.

An Industry Leader in JBOD Storage

Direct-attached backup repositories don't have to be complicated, but you wouldn't know it looking at other solutions on the market. Many high-capacity storage enclosures include features and performance that enterprises rarely need for backup and archiving, with a price tag to match. Others offer simple JBOD storage—but keep costs down by skimping on components, manufacturing and warranties.

Western Digital's Ultrastar storage platforms include unique technologies not found in any other storage platform: patented IsoVibe™ and innovative ArcticFlow™. IsoVibe reduces vibration-induced performance degradation, while ArcticFlow overcomes heating issues by introducing cool air into the middle of the platform. Combining these technologies with HelioSeal® hard drives provides a solution designed for long-term reliability and reduced drive failures, enabling the safekeeping of all the digital content stored on the platform.

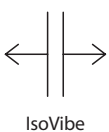
Get Started

Finding the right data backup solution doesn't have to be a tradeoff between complexity, reliability and costs. By combining Commvault Backup and Recovery with Ultrastar storage platforms, you can deploy a simple, reliable and massively scalable backup repository at an affordable price.

For more information on how Commvault data protection software paired with Western Digital's Ultrastar storage platforms can turbo-charge your data protection infrastructure and improve business operations, visit westerndigital.com/platforms.



Ultrastar Data102 and Ultrastar Data60 Storage Platforms



IsoVibe Vibration Isolation Technology

Precise cuts in the baseboard provide a suspension for the drives in the chassis, isolating them from transmitted vibration. The result is that consistent performance is maintained, even when all the drives are working hard.



ArcticFlow Thermal Zone Cooling Technology

By introducing cool air into the center of the chassis, drives operate at lower and more consistent temperatures than conventional systems. This results in lower fan speeds, reduced vibration, lower power consumption, quieter operation and ultimately higher reliability.



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