

# Simplify the Storage, Management and Protection of Unstructured Data With an Integrated Solution from Western Digital and Caringo



## Challenges

- Distributed workforce locations that require secure, remote access to data
- Keeping pace with rapid data growth caused by "everything online" model
- Increasing requirements to control access to sensitive data

## Highlights

- Provides dense on-prem S3 storage that is simple, scalable and affordable
- Intelligent data management simplifies control and protection of sensitive data
- Integrated best-of-breed storage solution for enterprise workloads

## Solution

The combined solution of Caringo Swarm with Western Digital's Ultrastar® Serv60+8 Hybrid Storage Server provides intelligent data management, security and access for remote workflows. This best-of-breed integrated solution drives down storage TCO while providing the performance and availability demanded by today's enterprise organizations.

## An Everything-Online World Demands Scalability and Accessibility

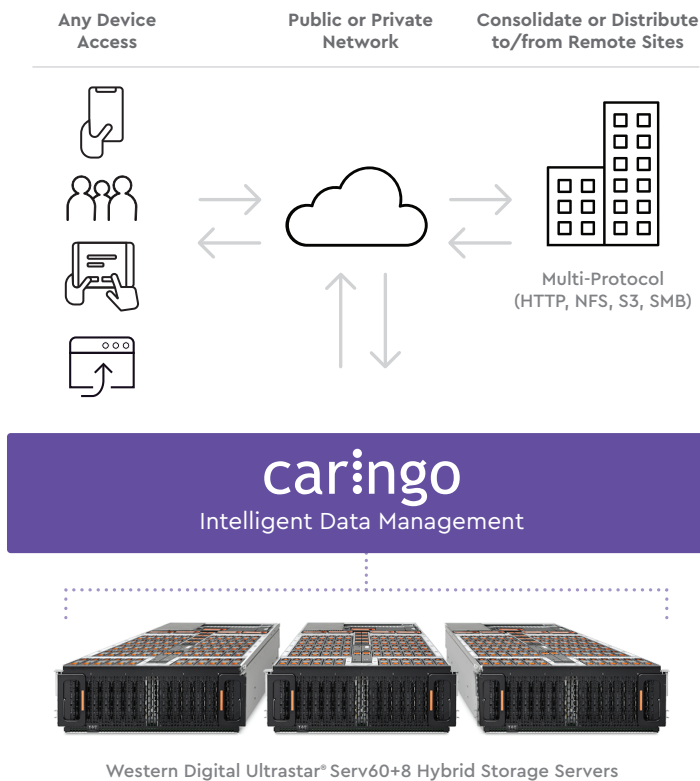
Now more than ever, secure, massively scalable storage is required for all types of organizations. Unprecedented data growth has been fueled by the move to a mostly online model for business, education and socialization. IT professionals are seeking solutions that provide the flexibility their end users demand while working with limited budgets and staff. With industry and government regulations, these solutions must also offer security and accountability for the critical data that is entrusted to them.

Traditional SAN and NAS solutions have started to buckle under the pressure of relentless data growth, and IT budgets can no longer sustain the addition of adding more expensive primary storage. In search of a better model for data storage, many are turning to software-defined solutions that run on reliable, x86 servers.

## Simplified Data Management for Unstructured Data at Massive Scale

Industry pioneers Caringo and Western Digital have collaborated to provide simplified data management and storage for unstructured data at massive scale. Founded in 2005, Caringo is known for their object-based software-defined storage. Today, field-hardened Caringo Swarm is trusted by some of the largest organizations in the world. These organizations run the gamut from Government, Research, Medicine and Education to Media & Entertainment and Sports Video. Western Digital continuously innovates, pushing the boundaries of science and technology to deliver products that enable greater data infrastructure efficiency and productivity with best-in-class TCO.

The Caringo and Western Digital solution provides incredibly dense, high-performing storage that can grow with your needs, and additional storage can be seamlessly integrated. In fact, with Caringo Swarm, the larger your storage cluster grows, the more efficient it becomes. This gives you a smart, on-premise, S3 storage solution so you can manage data tiering while ensuring your data is secure and highly available to your staff and end users.



## Hybrid Storage Servers with Massive Scalability

The Ultrastar Serv60+8 is a high-capacity hybrid storage server with compute included to address the demanding needs of large enterprise customers, OEMs, cloud service providers, and integrators that require dense, shared HDD or hybrid storage. This hybrid storage server provides the added durability and data reliability required to manage the data-intensive workloads in big data and software-defined storage (SDS) environments. With a choice of CPUs, memory and drives, the Ultrastar Serv60+8 offers the flexibility to balance performance with cost.

## Setting the Bar for Innovation

Western Digital Ultrastar platforms draw on nearly 50 years of Western Digital innovation and one of the most powerful patent portfolios in the industry. Western Digital's vertical integration brings decades of flash and hard disk drive (HDD) design experience to its storage servers, often delivering innovations six to twelve months ahead of the competition.

The innovations included in the Ultrastar Serv60+8 provide real-world benefits of increased reliability, reduced hardware acquisition costs and lower overall TCO. ArcticFlow™ thermal zone cooling technology improves cooling, reduces vibration and lowers energy consumption while patented IsoVibe™ vibration isolation technology maintains performance by reducing the impact of vibration. Together these technologies have been observed to reduce field drive returns by 62% compared to the previous generation enclosures.

## Conclusion

The combined solution of Caringo Swarm Intelligent Data Management & Object Storage Platform with Western Digital's Ultrastar Serv60+8 Hybrid Storage Server is the perfect solution for enterprise organizations that need to store, manage and protect unstructured data at massive scale. This solution enables you to store up to 1.2PB raw capacity in a 4U enclosure, while reducing costs, simplifying data management and supporting remote access requirements.

## Intelligent Data Management for Data-Driven Organizations

Caringo Swarm is a proven software-defined data management platform that provides a S3-compatible, on-premises solution for storage, protection, analysis, organization and search at massive scale for unstructured data (e.g., photos, videos and files). This enterprise-ready software-defined storage (SDS) platform for your data center provides the remote access critical for today's data- and content-driven businesses. Swarm includes advanced metadata search capabilities and data security features. A single IT or Storage Administrator can easily manage a 20+ PB Swarm cluster.

Using Caringo Swarm with Western Digital's performance-optimized hybrid server is an excellent choice for enterprise organizations, OEMs, cloud service providers and systems integrators.

**Western Digital.**