

Modernize your Storage with Western Digital[®] Hardware and Rozo Systems Software



Highlights

- Streamline your business workflows with a simple, versatile storage solution
- Reduce your capital and operating expenses with smart, consolidated storage technology
- Quickly and easily scale storage massively with immediate availability and no disruption
- Simplify data management thanks to a single volume architecture for multiple filesystems
- Do more by working concurrently thanks to operational efficiency with greater speed and lower cost
- Be confident with 100% data availability in the event of multiple component failures

Challenges

- Deliver high performance and petabyte capacity at low cost
- Rapid data growth exceeds the increase in IT budgets
- Ensure business-critical data is available when needed
- Integration in multiple work environments with support of standard protocols
- Eliminate costly SAN network
- Leverage standards to remove single vendor dependencies
- Open architecture to deploy device innovation faster

Improve the Economics and Performance of your Storage Systems on Western Digital Ultrastar[®] Data60

Storage is critical to the productivity of all businesses depending on instant availability of massive amounts of unstructured data. Those organizations rely on their employees having access to all data at all time without delay. This paradigm needs to hold true in increasingly complex environments where data resides on premise and in the cloud, leverages hard disk and flash storage devices, and workers are spread across multiple sites around the world and the solution needs to accommodate an avalanche of data at a lower cost. Traditional storage solutions were not designed for this complex world: they are based on pre-defined storage arrays that fit the 'on prem' model only and are very expensive. The combination of Western Digital Ultrastar Data60 hybrid storage platforms and Rozo Systems scale-out NAS software RozoFS[®] provides the performance of hybrid systems with the economics of nearline all-disk systems.

Western Digital's Ultrastar Data60 combined with RozoFS enable IT departments to manage the explosion of unstructured data and accelerate performance while staying within shrinking budgets.

Improve Performance

Customer existing storage solutions based on monolithic storage arrays are not scalable, create data silos, and suffer from poor performance slowing end-user productivity. These solutions are unsuitable for business-critical applications that manage petabytes of data.

Storage infrastructures built on Ultrastar Data60 and RozoFS deliver a very unique value proposition:

- Performance of hybrid flash/disk systems with disk storage only providing high performance at value
- Open architecture that leverages industry standards in x86 servers, IP networking and storage devices to deliver continuous performance improvement
- Leverages RDMA over Converged Ethernet (RoCE) to reduce latency, increase network bandwidth and lower CPU consumption
- Fast metadata searching that reduces searches from hours to seconds for petabyte file systems
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Solution

Western Digital Ultrastar Data60 hybrid storage platform combined with the RozoFS storage software will make your business thrive by accelerating performance and scale to petabytes of your storage while improving economics. Patented technologies from Western Digital and Rozo Systems deliver the reliability required for mission-critical workflows.

If you are considering buying traditional storage arrays, think about moving to a modern software defined storage solution built on Western Digital's hardware that delivers sustained performance, resilience and economics to fit most budgets and requirements.

Compromise nothing when it comes to storing, accessing and protecting your business critical information.

Optimal Data Protection

Organizations have long regarded their data as one of their most valuable corporate assets that must be protected and accessible 24x7. However, with an ever increasing amount of data under management, this is becoming a major issue. Basing the storage of large amounts of unstructured data on Ultrastar Data60 and RozoFS results in high data availability by protecting against the loss of key resources:

- A patented erasure code that preserves all data and maintains performance when up to a quarter of all storage devices or nodes are lost
- Asynchronous replication capability that creates a copy every few minutes in a remote data center with no impact on the production environment
- Data recovery feature to retrieve accidentally deleted files
- Minimize drive failure with Western Digital's patented ArcticFlow™ and IsoVibe™ innovations, backed by a 5-year limited warranty

Better Economics

Flat IT budgets that can't keep pace with rapid data growth are a reality for most corporations. IT departments are looking for ways to reduce the cost of storing large amounts of unstructured data.

- Software-defined storage solution (SDS) leveraging industry standards in compute servers, network switches and storage devices
- Consolidating petabytes of data onto a single platform eliminating data silos and maximizing storage efficiency
- Integrates in all environments as a POSIX file system and through the support of NFS and SMB protocols
- Uses a patented erasure code that delivers capacity cuts of up to 65% at the same protection level as redundancy resulting in less power, cooling and storage space
- Eliminates production downtimes by keeping the storage running when adding nodes or during rolling updates
- Reducing management costs through automation

Use Case Examples

- Digital media: broadcast, real-time streaming, rendering and post-production
- Enterprise file services: home directories, file shares, group and project data
- Life sciences: genome sequencing and large-scale microscopy
- Artificial Intelligence: Big Data analytics

Conclusion

Consolidate your file data, eliminate costly storage silos and simplify management with a modern storage solution based on Western Digital Ultrastar Data60 and the RozoFS software. This scale-out NAS system provides operational flexibility with built-in multiprotocol support so that you can support a wide range of unstructured data workloads on a single platform. Scale capacity easily and without disruption. Optimize system reliability with patented hardware and software innovation.

For more information on how Western Digital and Rozo Systems partner to disrupt a commodity market and deliver innovation that can turbocharge your mission-critical storage and improve business operations, visit www.rozosystems.com.

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