Massive Storage Capacity in an Agile Business Environment

QNAP and Seagate® deliver a massive storage solution that provides huge capacity, high density, and an efficient management system.

Solution Summary

To meet today's high demand for mass capacity, QNAP NAS paired with a Seagate Exos E JBOD delivers a high-capacity, high-density solution that provides an easy-to-use management system that is perfect for several different use cases, such as virtualization, data centers, and media and entertainment (M&E) production.

Benefits Summary

- Huge capacity—tackle the massive storage requirements such as 4K / 8K multimedia, big data storage, and critical backups.

- High density—Seagate Exos E 5U84, a 5U rackmount enclosure, can house 84 drives for storing up to 1.1 petabytes.

- Efficient management—QNAP Storage and Snapshots Manager simplifies NAS and JBOD management, effectively minimizing IT operational workloads.

In enterprise environments where data is in high demand, it can be quite disruptive to expand storage. Doing so can lead to splitting storage volumes, causing users confusion in locating files and applications—especially when multiple new storage servers are added to the network. Furthermore, this confusion can result in uneven loading and capacity consumption. A better solution is to install a unified storage management system.

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The Challenge

Enterprises need to find an affordable, unified, and reliable storage solution that can handle huge capacities with high-density hardware that is easy to manage and agile enough to grow their storage.

However, splitting storage volumes can cause confusion when there are multiple new servers added to the network—especially when trying to determine where files and apps are located—and can potentially result in uneven loading and capacity consumption. A better solution is to have an agile, centralized option that is capable of scaling to keep up with business growth.

The Solution

QNAP NAS boxes provide a unified enterprise storage solution with features at an affordable cost—perfect for data intensive businesses. When combined with Seagate's Exos E JBOD system, this solution provides near limitless storage possibilities.

Businesses can now tackle throughput and IOPS demanding applications with ease now being able to backup petabytes of virtual machines to NAS and JBOD with Veeam and being able to build and distribute sites and hybrid cloud efficiently with simplified access and minimize costs.

Seagate is the leading expert in building tightly integrated data storage solutions that offer big capacity with a small footprint, fast access with ease of management, and cost-effective protection for future technology refresh.
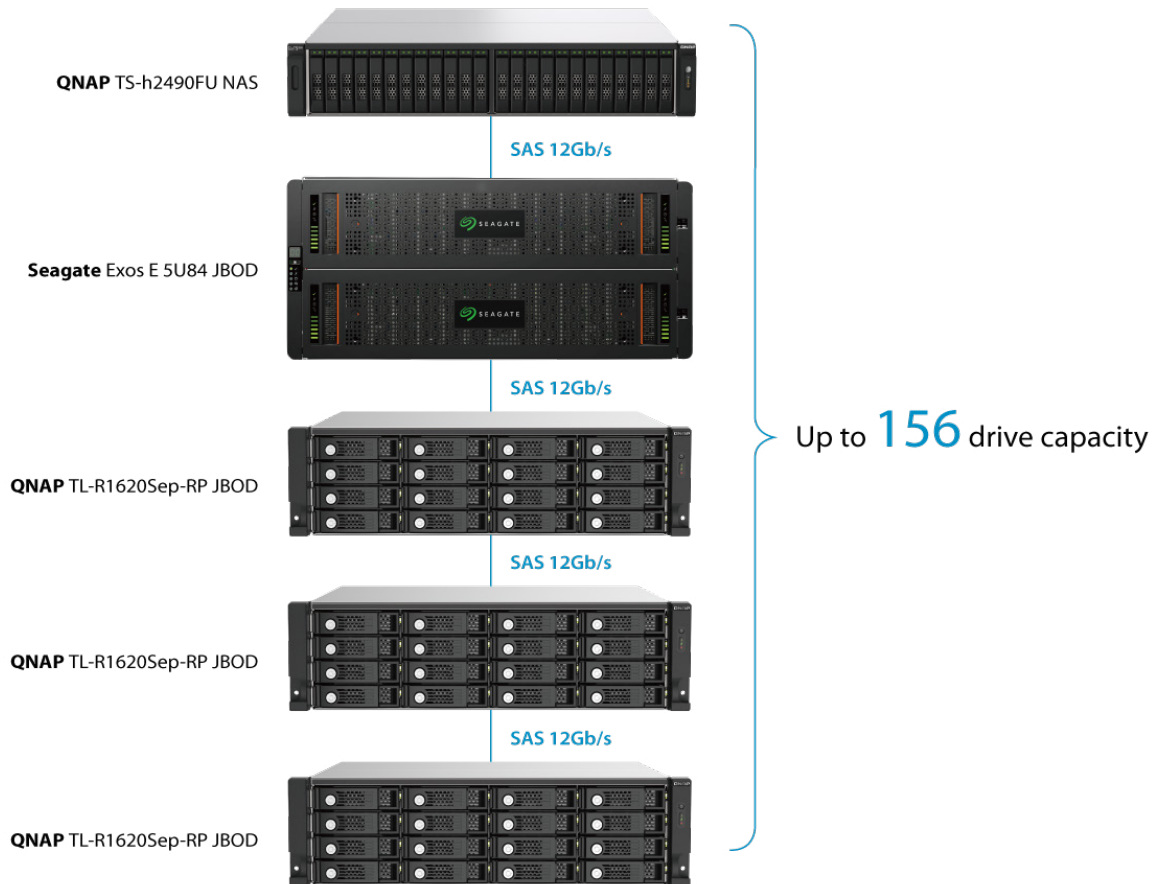
Combining QNAP NAS with a Seagate Exos E JBOD system enables customers to deploy a reliable, high-performance, and agile mass storage capacity solution for media and entertainment businesses. Benefits include:

- High-capacity hard drives that tackle the massive storage requirements of 4K/8K multimedia, big data storage, and critical backups.
- High density hardware capabilities with the Exos E JBOD can provide up to 156 drive capacity.
- QNAP storage and snapshots manager to simplify NAS and JBOD management, effectively minimizing IT operational workloads.

The QNAP NAS and Seagate Exos E JBOD solution provides several options for specific use cases including virtualization, data centers, and M&E productions. This combined solution eliminates storage bottlenecks for unstructured data and I/O intensive workloads and is ideal for server virtualization and virtual desktop infrastructure (VDI) needs.
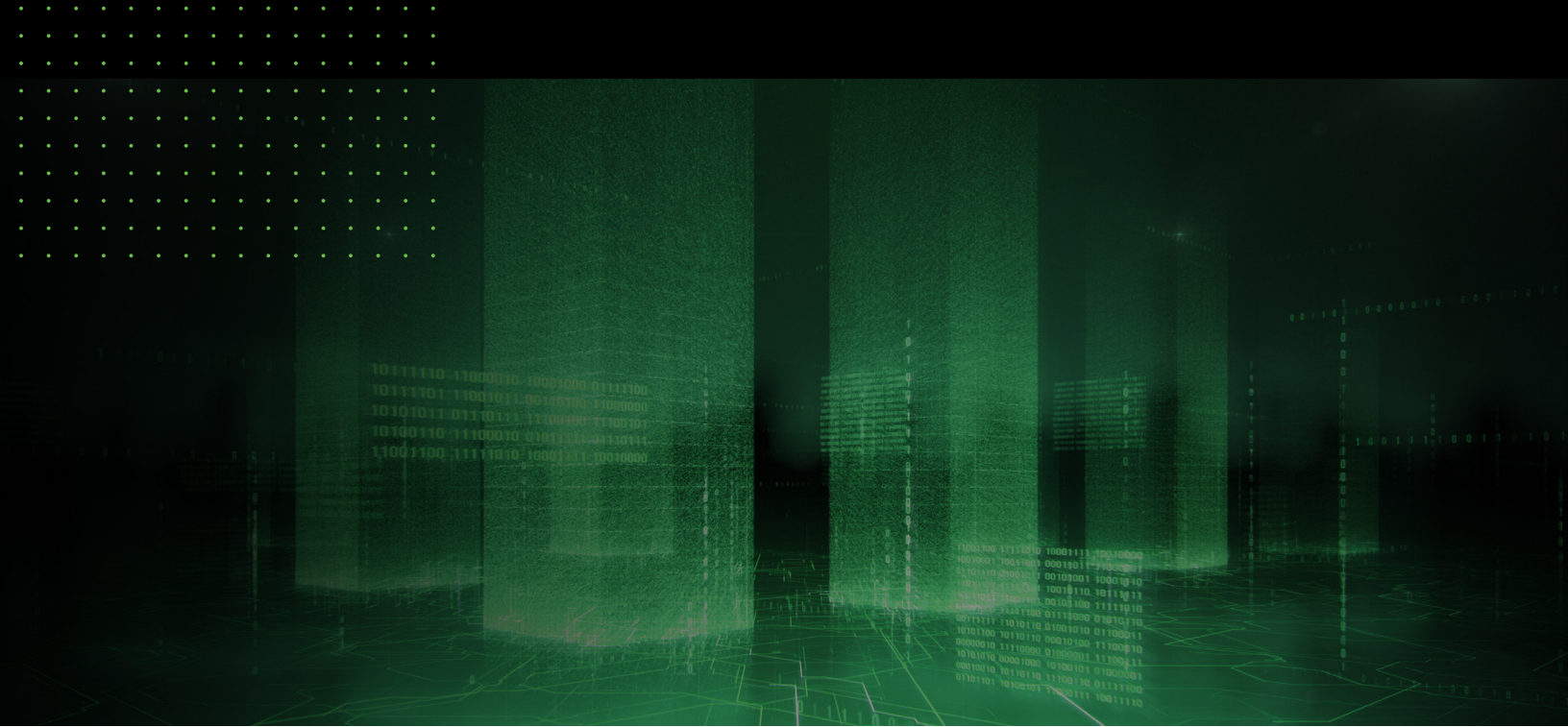
Data center customers experience ultra-low latency and high IOPs performance, providing response times within microseconds for hosting significant business-critical systems and data.

Media and entertainment productions will be able to work with smooth 4K/8K media streaming and post-production, empowering multimedia workflows with faster data transfer, access, and backup for boosted efficiency.

QNAP TS-h2490FU NAS

SAS 12Gb/s

Seagate Exos E 5U84 JBOD

SAS 12Gb/s

QNAP TL-R1620Sep-RP JBOD

SAS 12Gb/s

QNAP TL-R1620Sep-RP JBOD

SAS 12Gb/s

QNAP TL-R1620Sep-RP JBOD

Up to 156 drive capacity

Conclusion

No matter the type of use case, the combined solution will provide an efficient storage management system through QNAP's QTS operating system and huge capacity and high density with the Seagate Exos E 5U84 JBOD.

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