



SD7000-S File and Object Storage Server

Scality and Dell offer storage solutions for petabyte scale environments that consist of Scality™ RING™ software and Dell server and storage systems. The SD7000-S storage server can be used with Scality RING software for capacity-intensive file and object storage requirements found in active data archives, content distribution, web and cloud deployments, and distributed computing environments.

Based on a solid foundation

The SD7000-S is a massively dense storage server based on Dell's proven PowerEdge™ 13th generation server platform. It has one or two high-performance nodes, each with dual Intel® Xeon® E5-2650 processors and a 10Gb Ethernet dual port network interface card. This system is equipped with up to 90 hot-serviceable 3.5" drives that deliver a maximum of 688TB raw capacity in a 4U form factor and up to 6.9PB raw capacity in a 42-inch rack, making it one of the industry's densest file and object storage platforms available.

The SD7000-S is configured and optimized by Dell Storage for maximum performance and reliability of Scality RING deployments. A Scality RING can be deployed with three dual-node SD7000-S storage servers and this ultra-dense footprint helps reduce data center power, cooling and rack space requirements.

Purpose-built for Scality RING software

Through close collaboration, Dell and Scality have validated and tested the compatibility of the hardware and software stack and optimized the configuration for maximum performance with petabyte-scale workloads. Because the SD7000-S is purpose-built and factory-configured for Scality RING deployments, it eliminates the guesswork and risks involved in using general-purpose servers with standard components. This also accelerates procurement and deployment of the solution and helps lower system cost by eliminating unnecessary components. The SD7000-S incorporates hardware monitoring and management tools to help minimize downtime and speed system recovery and reset.

Deploy with confidence

With Scality RING software, the SD7000-S provides an enterprise class file and object storage solution with industry-leading economics and reliability. This solution helps minimize downtime with non-disruptive upgrades, self-healing capabilities and continuous data availability across a single or multiple sites. It also offers multiple

data protection technologies — erasure coding for large files and replication for small files — to help maximize system performance and data availability. Best of all, the SD7000-S is fully supported by Dell and Scality, from initial sizing, procurement and deployment through ongoing use, support and maintenance, and lifecycle management.

Dell and Scality file/object storage solution

The Dell - Scality solution is based on an object-based architecture that expands to multiple petabytes and billions of objects with linear performance scaling. It is designed for 100% uptime and runs on Dell x86 servers to increase flexibility and provide cloud economics to large storage environments. The Dell - Scality solution also delivers:

- A scale-out platform with predictable performance and capacity expansion
- Parallel, high-performance access for mixed workloads and multi applications
- Multiprotocol data access for file and object storage with optional OpenStack APIs
- Single or multi-site configurations with a single distributed namespace
- Flexible data protection using erasure coding, replication and geographic redundancy

Multi-petabyte storage
for unstructured data
with a single distributed
namespace across a
single or multiple sites

SD7000-S technical specifications	
Chassis	4U rack mount storage server with one or two storage server nodes (SD7500-S) per chassis
Processors	2 Intel® Xeon® processors E5-2650 v4 (2.2GHz, 12 cores) per node
Memory	12 DIMMs per node: 16GB or 32GB DDR4 RDIMM
Storage controllers	Avago® MegaRAID® 9361-8i, 12Gb SAS and SATA RAID controller
Boot volume	2 x 2.5" 1TB SATA hot-swappable boot drives per node
SSD (metadata)	1 or 2 x 2.5" 800GB or 1.6TB SSDs per node (dual-node chassis) 2 or 4 x 2.5" 800GB or 1.6TB SSDs (single-node chassis)
HDD (data)	10 to 43 x 3.5" 8TB SAS, 6TB or 8TB SATA per node (dual-node chassis), 688TB raw capacity 43 to 86 x 3.5" 8TB SAS, 6TB or 8TB SATA (single-node chassis), 688TB raw capacity per chassis
PCIe Slots	3 x8, 1 x16 slots; low profile and full height
Embedded networking	4 x 1GB Ethernet LOM per node
Network	Intel X520 10GbE Dual Port SFP+
Power supply	2 x 80 PLUS® Platinum efficiency, 1100W AC hot-plug redundant power supplies per node (dual-node chassis) 2 x 80 PLUS Gold efficiency, 1600W AC hot-plug redundant power supplies (single-node chassis)
Systems management	IPMI 2.0, BMC with vKVM support and 1 x 1GbE management port
Services and support	1 to 5 years Basic Next Business Day (NBD); support services from Basic to ProSupport and Flex
Supported operating systems	Red Hat Enterprise Linux: 6.6, 6.7, 7.1, 7.2 Centos: 6.6, 6.7, 7.1, 7.2
Supported Scality software	Scality RING software Version 5.1 and 6.0
Dimensions	Height: 173.8 mm Width: 434 mm Depth, chassis only: 1098.4 mm Depth with rails and CMA: 1242.68 mm (48.94 in) Weight: 129.5 kg (285 lb) (with 90 drives and 2 server nodes) Weight (empty): 57.1 kg (125.88 lb)
Availability	Available in select countries. Contact your Dell Sales Representative for more information.

End-to-end technology solutions

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