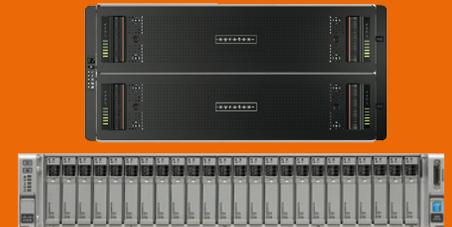




Cisco & Seagate - NexentaStor Reference Architecture Datasheet

Cisco, Seagate and Nexenta Deliver Highly Available, Full-featured Unified Storage



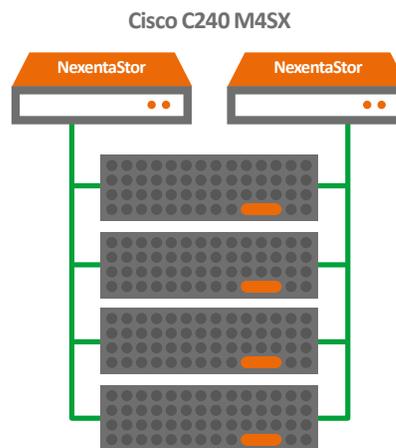
NexentaStor is Nexenta’s flagship Software-Defined Storage (SDS) platform, allowing thousands of customers all around the world to transform their storage infrastructure, increase flexibility and agility, simplify management and dramatically reduce costs without compromising on availability, reliability, or functionality.

Running on Cisco and Seagate hardware, NexentaStor delivers unified file and block storage services, scales from tens of terabyte to petabyte configurations, and includes all data management functionality. NexentaStor is Software-Defined Storage with SMARTS: Security, Manageability, Availability, Reliability, (lower) TCO, and Scalability.

Leveraging ZFS hybrid storage pools and other value-added enhancements, Cisco, Seagate and Nexenta reference architectures are Flash-ready. Write-intensive SSDs are used as ZFS intent-log to reduce write latency and read-intensive SSDs are used as a cache to reduce read latency and improve performance. The hybrid Flash system was designed to achieve the right balance of cost and performance for any given workload.

Cisco, Seagate and Nexenta reference architectures are ideally suited to support demanding enterprise applications in physical or virtual infrastructure, virtual desktop infrastructure, high performance digital media applications, and large-scale archive repositories. Cisco, Seagate and Nexenta reference architecture configurations scale up to 2PB of storage raw capacity.

There are three main reference architecture building blocks: storage controller (Cisco C240 M4SX), storage enclosures (Seagate 5484), and NexentaStor 4.0 software.



Features

Unified File and Block Services

- 10GbE NFSv3, NFSv4
- 10GbE CIFS, SMB 2.1
- 10GbE iSCSI
- 16Gbps Fibre Channel

Data Availability and Integrity

- Active/Active controllers
- ZFS 256-bit block level checksums
- RAID 10 and multi-parity software RAID (n+1, n+2, n+3)
- Asynchronous replication

Data Services and Optimization

- Flash and HDD hybrid pools
- ZFS Copy On Write
- Unlimited writable snapshots
- Thin provisioning
- Inline data compression

Scalability and Management

- 20TB to 2PB raw capacity
- CLI and Web UI
- SNMP and REST API



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Reference Architecture Configurations Cisco & Seagate

Cisco & Seagate RA + Building Blocks				
	NCS-1x84	NCS-2x84	NCS-3x84	NCS-4x84
Data Drive #	84	168	252	336
Form Factor (HA system)	9U	14U	19U	24U
Software	NexentaStor 4.0.4 and later			
Controller	1x or 2x C240 M4SX			
CPU	2x Xeon® E5-2680 v3 2.5GHz			
DRAM	256GB (16x 16GB)			
Boot Drive	2x 480GB internal SSD			
SAS HBA (external)	1x Cisco 9300-8e 12Gb SAS	2x Cisco 9300-8e 12Gb SAS	3x Cisco 9300-8e 12Gb SAS	4x Cisco 9300-8e 12Gb SAS
NIC	Intel X520 10GbE Dual Port SFP+ Intel X540 10GbE Dual Port Base T			
FC HBA	Emulex LPe 12002, LPe 16002-MC QLogic QLE 2562			
Storage Enclosure	1x Seagate SP-2584	2x Seagate SP-2584	3x Seagate SP-2584	4x Seagate SP-2584
Data HDD	Seagate 2TB NL SAS 7.2 PN: ST2000NM0034 Seagate 4TB NL SAS 7.2 PN: ST4000NM0134 Seagate 6TB NL SAS 7.2 PN: ST6000NM0034			
L2ARC	Seagate 1200 SSD 400GB			
ZIL / SLOG	Seagate 1200 HE SSD 200GB			



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