![Nexenta logo] **nexenta**®
Global Leader in Software-Defined Storage.

MetroHA
Solution Brief

Protect Your Business from System Outages with NexentaStor MetroHA©

It's business as usual – you're making sales, providing information to potential customers, delivering products and services – and then your systems go down. Was it a tornado slamming your data center, a local power outage, a network glitch, or an overheated server? Your customers don't care. They just want service and they want it now. Every second your systems are down could impact your revenues, customer satisfaction, and your business's reputation. So get NexentaStor MetroHA, and get back up and running fast – in as little as ten seconds.

There's no room for excuses. Your customers need always-on access to data to be satisfied. Your employees need it to be effective in their jobs, whether they're tracking sales, mining data, or keeping accounts. And depending on the industry you're in, regulatory bodies demand it. But stuff happens, and when it hits the cooling fan you've got to have a comprehensive plan B for snapping the lights back on within seconds. You need a strategy that can handle more than a glitch or even a data center disaster – gear up so that you can manage a regional disruption. Set the bar high: insist on continuous data availability for business-critical applications, with transparent failover for zero unplanned downtime. Then ask for a little more: the ability to seamlessly scale to meet new business demands by growing your business and storage infrastructure easily, without limits.

Why Choose Nexenta?

- Highest levels of data integrity
- Lowest total cost of storage
- Advanced data services and capacity optimization functionality
- Unbeatable performance and availability
- Built with Open Source Software

NexentaStor MetroHA

NexentaStor MetroHA delivers the comprehensive recovery infrastructure you need. Its high availability cluster configuration of NexentaStor with ATTO FiberBridges provides for at least two complete copies of specified file systems or data volumes separated by up to 30 miles/50 kilometers for storage redundancy, high availability, and disaster recovery over campus and metro-wide distances. With NexentaStor MetroHA, you manage the active-active pair from a single location, using synchronous copy updates to provide full redundancy and fail-over. Our design and implementation methodology removes the risk of possible configuration inconsistencies which arise between the two arrays. You can use either a web-based and command-line interface (CLI) to manage the solution.

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MetroHA

Solution Benefits

Nexenta Solutions Provide:

- Scalable, synchronous storage for two sites up to 30 mi (50 km) apart
- Great flexibility and advanced features including unlimited snapshots
- On-demand capacity expansion, data protection, and ease of management
- No vendor lock-in - choose the right hardware for each project
- Excellent overall I/O per watt for an even greener solution

Low TCO: Like other Nexenta products, NexentaStor MetroHA is Open Source-driven Software-Defined Storage, so you're free to run it on whatever industry-standard x86 server hardware is most cost effective for your business, free from vendor lock-in. Because NexentaStor MetroHA is a true clustered storage solution, you manage the active-active pair from a single location, which simplifies administration, configuration, and maintenance for the primary and secondary site – and further reduces overhead and cost.

24 x 7 availability: Most organizations need immediate access to their data 24x7, even when a disaster occurs. Because NexentaStor MetroHA stores mirrored data at multiple sites, your organization can keep accessing the data needed by real-time mission critical applications regardless of whether there's a drive failure, a head node failure, a data center failure, or even a regional disruption.

NexentaStor MetroHA synchronously distributes data across multiple sites within metropolitan distances and presents it to the storage controller heads for both active-active and active-passive unified storage presentation. In the event of a total site disruption, NexentaStor MetroHA restores data services at the secondary location or remote site within seconds.

High performance and resilience: Many organizations are finding it harder to access their data quickly even under everyday conditions. NexentaStor MetroHA can improve everyday access as well as provide seamless service in the event of a systems failure.

NexentaStor MetroHA provides a synchronous storage solution that stores data at two sites, separated by up to 30 miles/50 kilometers. Configurations contain at least two complete copies of specified file systems or data volumes, synchronously updated to the storage arrays, true ZFS mirroring (instead of replication), and end-to-end data integrity for both optimal uptime and maximum data integrity when transferred over the WAN.

For maximum performance, NexentaStor MetroHA leverages back end fiber channel connectivity in conjunction with the ATTO FiberBridges and hybrid storage pools, which use the system memory of the head nodes as well as solid state drives to speed up reads and writes for all data that is shared across the environment. This accelerates the everyday performance of standard rotational hard disk drives resulting in a faster solution with a smaller data center footprint than other storage solutions on the market today.

Start Now to Make Sure Your Data Is Always Available

Contact Nexenta for more information on NexentaStor MetroHA. Our professional services teams are ready to help your organization protect its data even more effectively by simplifying the design, deployment, and maintenance of high availability solutions – for the data center, campus, or metropolitan area.

Product Benefits

⚙ nexenta® OpenSDx Vision

Nexenta believes in a vision that provides organizations with the "true" benefits of Software-Defined Everything-centric Cloud Computing — from data centers to end users; from the infrastructure to apps. We promote and drive "open" partnerships with customers and many solution providers from "compute" to "networking"; from HDDs to SSDs; from cloud platforms to the application infrastructure and business analytics. We call our vision - Open Software-Defined Everything (OpenSDx).

⚙ nexenta® OpenSDS Portfolio

Nexenta uniquely integrates software-only "open source" collaboration with commodity hardware-centric "Software-Defined Storage" innovation to create what we simply call Open Software-Defined Storage (OpenSDS). Nexenta OpenSDS solutions are 100% software-based; and 100% hardware-, protocol-, and app-agnostic, providing organizations with the Total Freedom and protection from vendor lock-in.

🧱 NexentaStor

Nexenta's flagship Open Source-driven Software-Defined Storage (OpenSDS) solution, NexentaStor, delivers unified file and block storage services, runs on industry standard hardware, scales from tens of terabytes to petabyte configurations, and includes all data management functionality by default.
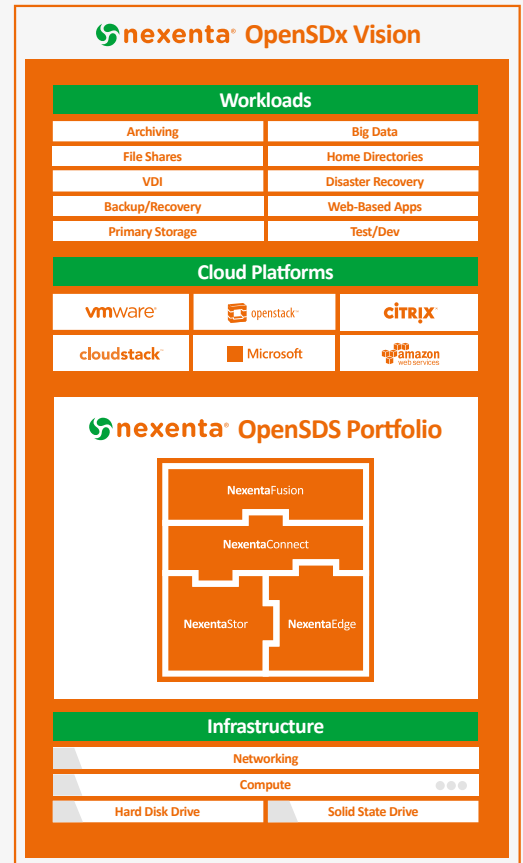
🧱 NexentaEdge

NexentaEdge is designed from the ground-up to deliver high performance block and object storage services and limitless scalability to next generation OpenStack clouds, petabyte-scale active archives and Big Data applications.

🧱 NexentaConnect

NexentaConnect is a complete suite of software solutions that build on Nexenta storage software and seamless integration with 3rd party ecosystems to address storage challenges in desktop and server virtualization deployments.

🧱 NexentaFusion

Bringing all of the above together, NexentaFusion provides single pane of glass reporting, monitoring, analytics and orchestration for all your storage assets.

⚙ nexenta® OpenSDx Vision

Workloads

Archiving	Big Data
File Shares	Home Directories
VDI	Disaster Recovery
Backup/Recovery	Web-Based Apps
Primary Storage	Test/Dev

Cloud Platforms

vmware	openstack	CITRIX
cloudstack	Microsoft	amazon web services

⚙ nexenta® OpenSDS Portfolio

- NexentaFusion
- NexentaConnect
- NexentaStor
- NexentaEdge

Infrastructure

Networking
Compute

Hard Disk Drive	Solid State Drive

Revolutionize Your Data Storage.

Choose Nexenta Software-Defined Storage

Request an assessment at **www.nexenta.com**

To access more information about Nexenta and how it can improve a clinical IT environment go to www.nexenta.com/casestudies to see case studies and download free trials of NexentaStor or NexentaConnect.

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