



VEXATA VX-100FS FILE STORAGE SYSTEMS

Highest Performing Scalable Enterprise File Storage

Unparalleled File I/O Performance at Scale

The Vexata VX-100FS File Storage System is a tightly integrated and engineered Scale-out File Controller* and VX-100 Scalable Data System. The VX-100FS provides unparalleled NFS, GPFS, SMB and HDFS performance, enterprise class resiliency, rich data services and scalability to uniquely solve the emerging Video, EDA, Genomics, IoT, Machine learning and AI challenges.

VX-100FS File Storage Systems provide low latency, fast I/O processing, plus high throughput for fast ingest and read performance supporting transactional and analytical workloads. Designed to simultaneously handle 100's of millions of small and large files, coupled with small block meta-data updates, the VX-100FS provides excellent performance for acceleration of applications and business processes. The VX-100FS is available in multiple configurations optimized to meet transactional and throughput intensive workloads.

Unlock the Power of NVMe SSDs for File Services

VX-100FS provides linear scalability, by adding up to 8 File Controller nodes for unparalleled high-performance file access, without any hotspots. The VX-100 Data System also scales from 4 to 16 hot-swappable Enterprise Storage Module's (ESM) each with 4 SSDs for a total system capacity of 64 SSDs per system. Additional VX-100 Data System Nodes can be further added to scale capacity and performance. This allows the VX-100FS to scale to up to 2M IOPS, 60GB/s of throughput and up to 360TB of capacity.

Unmatched System Resiliency

VX-100FS Clustered File Controller can gracefully handle File Controller failures, if any. Similarly, VX-100 Scalable Data System active-active IO controllers (IOCs), ensure that application access to data is available 99.9999% of the time. VX-100FS system can be configured in RAID 5 or RAID 6 protection for greater than 2X efficiency over traditional protection mechanisms. Failure of a ESM is handled by accelerated data path and rebuilds are significantly faster, without resulting in filesystem re-builds. Non-disruptive upgrades (NDU) are supported, without disruption to normal operations.

Enterprise Data Services and Protection

VX-100FS File Storage System implements file level snapshots, clones, file replication, policy based tiering across storage pools and cloud. File based post process compression allows flexibility. Global namespace can be extended across geographies for collaboration across datacenters. Always on data path accelerated encryption ensures no performance impact to the workloads.

ENTERPRISE SOLUTIONS



VERTICALS

Media and Entertainment

EDA

Lifesciences

Real time Analytics

IoT, Manufacturing

ENTERPRISE FEATURES



PERFORMANCE

2M File IOPS

100's of Millions of small & large files

100GB/s RD, 50GB/s WR

60 GB/s MIXED Bandwidth

Less than 300 us latency



SCALABLE

Pay as you grow

Scale-out File Controller

Scalable Storage Modules

Scale-out VX-100 Data Systems



OPERATIONAL SIMPLICITY

GUI, CLI, Restful API

Call Home

Predictive Analytics



DATA SERVICES

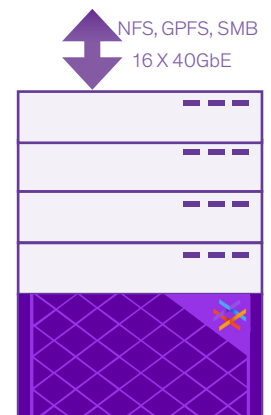
2X Efficient Data Protection

Non-Disruptive Upgrades

Always ON Encryption

Post process compression

File based snaps, replication



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System Configurations and Specifications

	VX-100FS ENTRY	VX-100FS BALANCED	VX-100FS PERFORMANCE
CAPACITY (USABLE)	Up to 90 TB	Up to 180 TB	Up to 360 TB
PERFORMANCE	Up to 500K IOPS	Upto 1M IOPS	Up to 2M IOPS
BANDWIDTH	Up to 25GB/s RD; 15GB/s WR; 20GB/s Mixed	Up to 50 GB/s RD; 25 GB/s WR; 30 GB/s Mixed	Up to 100GB/s RD; 50GB/s WR; 60GB/s Mixed
LATENCY	300µs	300µs	300µs
CONTROLLER NODES	2	4	8
STORAGE NODES	1 (8 ESM's)	1 (16 ESM's)	2 (16 ESM's)
RACK UNITS	8 RU	10 RU	20 RU
PROTOCOLS	NFS, GPFS, SMB, HDFS		
CONNECTIVITY	8* 40 GbE	16* 40 GbE	16* 40 GbE
DATA PROTECTION	RAID 5 and 6, File Snapshots and Clones, Replication		
MANAGEMENT	VX Cloud Manager GUI, CLI and REST API's		

ABOUT VEXATA:

Vexata is the leader in real-time enterprise storage solutions. Vexata's unique breakthrough enterprise storage solutions enable transformative performance and scale. Learn more at www.vexata.com.

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Scale-out File Controller is implemented with industry leading IBM Spectrum Scale

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