



Dell Compellent FS8600

Unified storage as dynamic as your business

Now you can improve productivity and streamline your IT infrastructure by unifying block and file data on a single storage platform. The Dell™ Compellent™ FS8600 brings scale-out network-attached storage (NAS) to the Compellent product portfolio and introduces the innovative Dell Fluid File System (FluidFS) to the storage environment. A core piece of the Dell Fluid Data architecture, FluidFS is a clustered file system that avoids traditional architectural limitations by scaling capacity and performance non-disruptively. Advanced features help ensure your data is efficiently stored, managed and protected.

Manage your data efficiently while controlling costs

Paired with Dell Compellent Storage Center, the FS8600 enables highly efficient file and block storage through a single virtualized platform, avoiding the overhead and complexity of two solutions. Users can keep CAPEX and OPEX in check while leveraging Compellent's industry-leading block-level efficiencies for their file storage needs. Automated tiered storage helps customers lower the overall cost of storage by automatically moving stagnant files to less expensive drives. A single virtualized pool of capacity eliminates the need to carve separate spindles for file. Thin provisioning allows users to over-allocate NAS capacity, but only consumes space when data is written. And Copilot Support provides one number to dial for award-winning support for the entire SAN and NAS solution.

Scale up and out as your storage requirements grow

The Dell Compellent FS8600 solution provides an extremely agile platform for constantly evolving block and file storage requirements. Performance and capacity scale non-disruptively to accommodate growing storage needs without forcing a platform rip-and-replace.

The scale-out architecture supports a single namespace across up to four FS8600 appliances and capacity expands up to 1PB manageable space with two Storage Center arrays. Load-balancing continually optimizes performance as the FS8600 system scales.

Keep your business protected with a highly available solution

The inherent resilience of the FS8600 gives you another layer of data protection without adding complexity. Active-active controller pairs provide instantaneous failover without introducing idle resources. Features like cache mirroring, battery-based backup power supply and failsafe journaling protect metadata to help maintain data integrity. Redirect-on-write file-level snapshots require only one I/O per write, avoiding the performance degradation of the traditional copy-on-write approach. Asynchronous replication complements the robust disaster recovery capabilities of Storage Center at the file system level. Add another layer of data protection with native NDMP backup and antivirus via ICAP and Symantec Scan Engine 5.2.

Enhance your enterprise storage capabilities with the Compellent FS8600 and enable an intelligent, agile future for your data center and your business.

Feature	Dell™ Compellent™ FS8600
NAS appliance and controllers	Each NAS appliance has dual active-active NAS controllers with cache mirroring and integrated backup power supply
Max capacity and cluster size	Single namespace expands up to 1PB (with two Storage Centers, SCOS 6.x and 12GB memory) and out to 4 appliances (8 controllers)
Front-end (client network) connectivity	1GbE version: 4 x 1GbE ports per controller 10GbE version: 2 x 10GbE ports per controller
Back-end (SAN) connectivity	2 x 8Gb Fibre Channel ports per controller Switch is required; direct connect to the SAN is not supported
Protocol support	CIFS/SMBv1.0, NFSv3, Active Directory, LDAP, NIS, NDMP, SNMP
Storage arrays supported	Series 40 or SC8000 controllers SCOS 5.5.6, 5.5.10, 6.1.3, 6.2; Enterprise Manager 6.2
CPU per controller	Dual Intel E5620 4-core / 12MB L3/ 80W / 2.4GHz
Memory	24GB DDR3 1066 MHz per controller
Form factor	2U
Boot option	Local
Files	Max file size: 4TB Max number of files per appliance: 64 billion Max number of files per 4-appliance cluster: 256 billion Max file name length: 255 bytes
Directories	Max number of directories per appliance: 34 billion Max number of directories per 4-appliance cluster: 136 billion Max directory depth: 512
Management	Enterprise Manager and Fluid File System GUI
Thin provisioning	Block-level with Compellent Dynamic Capacity
Automated Tiered Storage	Compellent Automated Tiered Storage applied to NAS Pool
Snapshots	Redirect-on-write, user-accessible over the network Maximum number of snapshots per NAS volume: 512 Maximum number of snapshots per FS8600 system: 10,000
Replication	Asynchronous to peer FS8600 appliance(s) Like-to-like configurations only Maximum number of replication policies per FS8600 system: 100
NDMP	Remote via Ethernet ports (Fibre Channel not supported) Certified with CommVault Simpana 9.x, Symantec NetBackup 7.x and Backup Exec 2010R3 & 2012
Antivirus	ICAP and Symantec ScanEngine 5.2
User authentication	Microsoft Active Directory 2003 and 2008 for Windows CIFS clients with Microsoft NLTM (Level 0-2), Kerberos
User identity management	LDAP, NIS for Linux/UNIX NFS clients
Shares/Exports	Max number of CIFS shares: 1,024 Max number of NFS mounts/exports: 1,024
Max concurrent active CIFS connections	1500 for single appliance, 6000 for a 4-appliance cluster
Max quotas	512 quota rules per volume, 100,000 user quotas per system
Max NAS volumes	256 per appliance, 1,024 per 4-appliance cluster
Primary power supply	2 PSUs per appliance
Backup power supply	1 battery per controller, 2 batteries per appliance
Wattage	Output 717W
Voltage	115-230 V AC
Heat dissipation	242 BTU/hr Max @ 230 V AC, 322 BTU/hr Max @ 115 V AC
Height	8.64 cm (3.4 in)
Width	44.63 cm (17.6 in) (does not include rack flange)
Depth	81.30 cm (32.0 in) (includes bezel and controllers installed)
Maximum weight	69.5 lbs

Learn how Dell Compellent can give you the power to do more with your data at Dell.com/Compellent.

