Quantum®

Xcellis Workflow Extender

Affordable, high-performance scalability for StorNext NAS environments

Monster-sized data sets and multiple HD or 4K video projects can quickly consume precious primary storage. Adding storage can sometimes solve the problem, but so too can increasing access to files to get more work done faster.

Xcellis® Workflow Extender brings affordable 1 GbE, 10 GbE, and 40 GbE Ethernet client access to StorNext® environments, affordably expanding workflow options when additional throughput is needed. Workflow Extender is ideal for customers who have render farms for visual effects, server farms for data analysis, or 100-plus workstation environments where shared storage is a must.

BEYOND NAS PERFORMANCE
In workflows where low latency is required, Workflow Extender can be configured with Quantum's Distributed LAN Client (DLC). DLC provides block-level access to StorNext volumes over 1 GbE, 10 GbE, and 40 GbE connections. This clustered NAS-like solution outperforms NFS and SMB file sharing— improving resiliency and load balancing while lowering data fragmentation and CPU utilization. DLC can be especially attractive to customers who have high-performance computing (HPC) or video rendering projects where large data sets or animation projects need to be shared by multiple clients.

MOVE IT—PROTECT IT
Workflow Extender can also serve as a Distributed Data Mover (DDM), taking data migration duties from StorNext metadata controllers and clients. This preserves system performance during archive operations when data is moved between primary storage and more affordable tiers, such as tape, object, or cloud storage. DDM functionality can scale with system requirements to help preserve system performance.

SCALE-OUT AVAILABILITY
In dual redundant configurations, the Workflow Extender appliance's built-in StorNext software can monitor the load between multiple gateways, dynamically allocating requests to balance the traffic across network interface cards. If a Workflow Extender appliance fails, its I/O requests will be redirected to the secondary unit, protecting IP clients from losing data access. This automated process greatly reduces the administrative overhead of having to remap and mount client machines to new targets, as typically occurs in traditional NFS/CIFS LAN connections.

LICENSED FOR FLEXIBILITY
Xcellis Workflow Extender comes with either a NAS, DLC, or DDM license. Users can connect as many clients as can be accommodated by the available bandwidth of the gateway and based on specific workflow needs—without having to purchase additional licenses.

FEATURES & BENEFITS

- StorNext NAS gateway node
- Supports all IP workflow environments
- 1 GbE, 10 GbE, and 40 GbE connectivity options
- Scale-out NAS performance and access
- Multi-protocol NAS access
  - SMB 1, SMB 2, SMB 3
  - NFSv3 and NFSv4
- Quantum DLC (block over IP)
  - Client for extreme performance requirements
- Scale-out distributed data movement to tape, object, and cloud storage
- Automatic failover and load balancing of services between nodes
- Easily add to any Xcellis, M-Series, or other StorNext environments
- No per-client licensing

POWERED BY **StorNext**®

SYSTEM

Xcellis Workflow Extender Hardware	Dual 6-core CPU 64 GB RAM Dual internal mirrored drives for Operating System Dual 750 W power supplies Dual cooling fans

LICENSING

At least one license is required; licenses are allowed in any combination.

StorNext LAN Gateway License	Allows connection of StorNext LAN clients directly to Xcellis. Does not require per-client licensing.
NAS Connectivity License	Allows connection of SMB and NFS clients directly to Xcellis. Does not require per-client licensing.
StorNext Distributed Data Mover Option	Moves data from primary storage to a tier such as cloud, object, disk, or tape.
Included StorNext Software	Includes a StorNext SAN client for the Xcellis Workflow Extender.

CONNECTIVITY OPTIONS

Up to Three Fibre Channel or Ethernet Adapters

Fibre Channel (includes optics and cables)	Dual 32 Gb, Dual 16 Gb, or Quad 16 Gb
Onboard Ethernet	Quad 1 Gb for management, metadata, and service
Ethernet	Up to two additional NICs for StorNext LAN, NAS, cloud, and object Dual 10 Gb Ethernet with Optical SFP+ and cables Dual 10 Gb Ethernet with Twinax cables Dual 10GBASE-T Quad 1 Gb Ethernet with copper cables Dual 40 Gb Ethernet with QSPF+ sockets
Client Protocol Support	StorNext SAN, StorNext LAN, SMB 1 (CIFS), SMB 2, SMB 3, NFS v3, Active Directory, OpenLDAP, RESTful API
Client Support	Linux, Mac OS X, Windows

PHYSICAL SPECIFICATIONS

Rack Height	1U
Height	1.68 in (4.28 cm)
Width	18.98 in (48.23 cm)
Depth	29.72 in (75.51 cm)

ENVIRONMENTAL SPECIFICATIONS

Humidity	10% to 80% relative humidity with 26 °C (78.8 °F) maximum dew point
Temperature °F (°C)	Temperature ranges (for altitude less than 950 m or 3,117 ft) of 10 °C to 35 °C (50 °F to 95 °F) with no direct sunlight on the equipment
Operating Vibration	0.26 G rms at 5 Hz to 350 Hz (all operation orientations)

POWER REQUIREMENTS

Voltage:	100-240 VAC
Frequency:	50-60 Hz
Inrush	2.59 A @ 100 V 1.15 A @ 240 V
Maximum	7.5 A @ 100 V 4.0 A @ 240 V, 750 W

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