

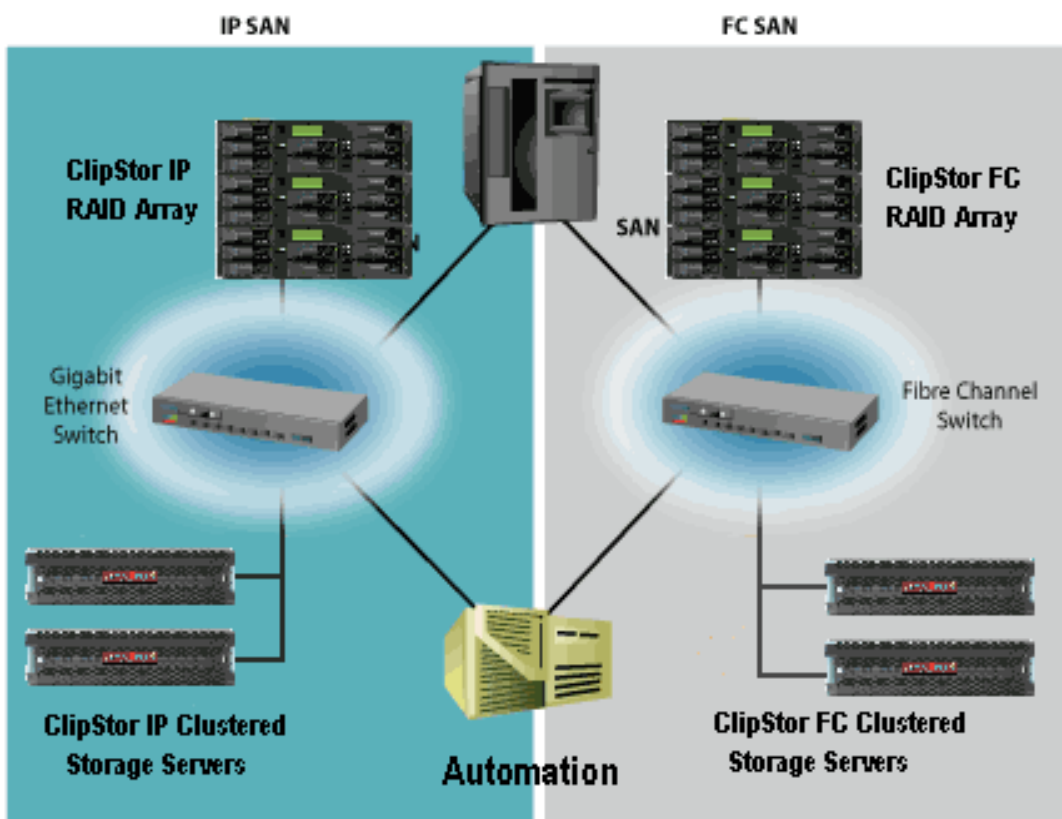
ClipStor™



Clustered IP Network-Attached Storage Server For Broadcast and Entertainment Content

The *ClipStor/IP* storage server is for Broadcast professionals who are searching for a cost-effective, scalable SAN infrastructure that can centrally manage and provision shared storage devices. *ClipStor/IP* delivers industrial strength storage services to hosts attached to a network-attached storage (NAS) network via the CIFS or NFS file-based protocol, or block-based iSCSI protocol. This scalable NAS solution provides performance, flexibility, availability and investment protection, all within a familiar and easy to manage Windows Server 2003 Enterprise R2™ cluster environment.

- Multi-server NAS config
- Single File System Storage Pool View
- Minimizes complexity of managing 'Islands of NAS storage silos'
- Centralized storage management
- Continuous data availability
- Rapid Recovery
- Synchronous mirroring for transparent recovery
- Automatic Server and Content storage failover
- Dual-network connections eliminates single point of failure
- Multi-Path I/O (MPIO) option ensures constant data availability to any server or workstation on the GigaBit ethernet network (supports iSCSI servers/workstations with standard iSCSI initiator software) by intelligently identifying network faults and transparently rerouting data around those faults.



- Active-Active or Active-Passive configuration support
 - > In the event a *ClipStor/IP* server fails, its partner will assume the network address of the failing node and provide iSCSI services for both nodes. The surviving node obtains configuration information from a pre-designated shared quorum drive. When the failed server is restored, it negotiates through the quorum drive to resume control and services for its original clients and storage elements and executes an amicable failback. To avoid loss or corruption data in transit between block-level clients and the physical storage during failover conditions, the *ClipStor/IP* storage server will not acknowledge any successful I/O write completions back to the application server unless it has received a corresponding write completion from the physical storage.
- Scalable Storage from 6TB to over 160TB+ in a single 44U rack, all under single or multiple CIFS/NFS mount point
 - > Optional 2U/8-drive, 3U-16 drive, 4U-20 drive or 5U-24 drive iSCSI RAID array configurations available
 - > Optional 44U Rack enclosure available
 - > Optional single/dual-channel Fibre-channel configurations available
 - > Optional custom configurations available



ClipStor™



KEY FEATURES

ClipStor/IP Clustered Storage Server

- 3U rack-mount chassis, 650watt power, redundant cooling, optional redundant power
- Intel Dual-Core Xeon 3.2Ghz/Core-2 Duo 3.4Ghz processor options, 1-4GB DDR2 SDRAM
- Dual 250GB SATA-2 mirrored O/S drives (Windows 2003 Enterprise Server Cluster)
- Optional integral Six (6) hot-swap 750GB or 1TB SATA-2 drives
- Integral slim-line CDR/DVD-ROM drive
- Dual GigE 10/100/1000 Ethernet, optional up to 8 GigE ports, Four (4) USB ports
- Integral Microsoft SQL database
- Integral Microsoft iSCSI initiator software, optional iSCSI HBA accelerator available
- Optional fibre-channel interface and storage available
- Optional Blu-ray, LTO3/4, UDO2 automated library storage available
- Supports Microsoft VDS, VSS and MPIO



ClipStor/IP RAID Storage Array

- 2U/8-drive, 3U/16-drive and 4U/24-drive rack-mount chassis available (1TB SATA drives)



- Dual-channel 2GbE iSCSI to SATA-2
- 64-bit, 512MB RAID 0/1/3/5/6/10/30/50/JBOD controller
- Hot-swap drives, cooling fans and power supplies
- Redundant, hot-swap 350watt power supply
- Web-browser remote management

ClipStor/IP GigE Switch

- Rack mount 24-port 10/100/1000 Managed Gigabit Ethernet ports (optional 48-port model)
- Communications: IEEE 802.1p Priority; IEEE 802.1Q VLANs; IEEE 802.3ad Link Aggregation Control Protocol (LACP); IEEE 802.3x Flow Control; RFC 1534 DHCP/BOOTP Interoperation
- Latency: <math><4.7 \mu\text{s}</math> (64-byte packets); <math><3.0 \mu\text{s}</math> (64-byte packets)
- Address Table Size: 8,000 entries
- Routing Capacity: 48Gbps
- Throughput: up to 35.7 mpps (64-byte packets)
- Web-browser remote management



Fully-Redundant Clustered 44U
ClipStor/IP Storage Subsystem

ClipStor/IP Options

- 44U Rack Mount Chassis
 - > Supports 16-2U/8-drive, 10-3U/16 drive, 8-4U/24drive RAID Arrays per Clustered Server Chassis, fully redundant server, switch, storage and chassis power configurations
 - > 2-Year Storage Server Warranty, 3-Year RAID Array/Drive Warranty
 - > On-site installation, training and custom configurations available
 - > On-site hardware service and support available
 - > Silver 9x5xM-F
 - > Gold 24x7

- For additional *ClipStor/IP* product information, quotations or evaluation units, please contact your CUC sales Representative or Authorized CUC Reseller, or visit us online today at www.broadcast-storage.net

