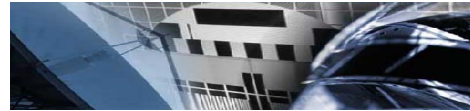




Broadcast-Storage News

...Respected by Customers, Valued by Partners...



Special Points Of Interest In This Issue

- 50GB Blu-ray optical storage now shipping.
- CUC introduces their new **OmniStor/3160** 4Gb RAID storage subsystem..
- 60GB UDO2 Technology Now Shipping.
- LTO4 Tape Technology Now Shipping..

Museum of Broadcast Selects CUC

The Museum of Broadcast Communications (MBC) is the premiere broadcast museum in America and home to the only National Radio Hall of Fame. Their mission is to collect, preserve, and present historic and contemporary radio and television content as well as educate, inform, and entertain through their archives, public programs, screenings, exhibits, publications and online access to these resources. The MBC is a not-for-profit organization that has offered the diverse populations multiple opportunities for public learning since 1987. MBC has selected CUC as their media asset management and archival storage vendor.



The new MBC vision and radio history will be located at State and Kinzie Streets, right next door to Harry Caray's Restaurant and the House of Blues Hotel. The new MBC is a model energy-efficient museum that will provide five times as much space as the location in the Chicago Cultural Center, which closed in December 2003 in order for staff to focus on planning the new home. The facility will allow the Museum to: serve a wide range of audiences; expand its collections; and increase exhibit and programming space. The expanded facility will enable the Museum to accommodate an increasing number of school groups and extend its educational outreach. The new facility will provide a range of educational spaces

that are critical to the Museum's mission. New on-site features include:

- A two-story, glass-and-steel lobby atrium, a cafe, and a gift shop;
- Over 15,000 square feet devoted to the exhibition of television and radio history;
- State-of-the-art television and radio studios for hands-on experiences;
- A media-equipped center for orientation and teaching;
- A 12,000sq.ft. public programs, screenings, and lectures area
- Browseable digitized archives and a Media Café.



50GB Blu-ray Storage Technology Available !



The Museum of Broadcast Communications

INSIDE THIS ISSUE:

MBC Selects CUC	1
UDO2 Now Shipping	1
CUC Exhibiting At NAB	2
SGL Ships FlashNet V6	2
OmniStor/3160 Announced	3
Qualstar Shipping LTO4	3
OmniARC Coming Soon	3
Perpendicular Recording	4

New UDO-2 60GB Archival Storage Shipping

Plasmon of Cambridge, UK and Colorado Springs, Colorado, have begun shipping their new Ultra-Density Optical (UDO) second-generation 60GB drives, media and library automation products. Based on ultra-density, blu-laser technology, UDO is the standard for professional archival

storage. UDO meets the longevity and data compliance requirements of demanding data archive environments from small to enterprise businesses and government agencies. UDO2 offers archival storage customers double the capacity and a fifty (50%) performance increase over

first generation UDO products. UDO2 provides the same trusted data authenticity, permanence, and media longevity as first generation UDO1 but at an even lower total cost of ownership. UDO2 is backward read compatible with UDO1, enabling easy upgrades that extend system life and protect (cont.)>

UDO2



Plasmon's 60GB media-based Ultra-Density Optical (UDO) G-Series Automated Library Products.

UDO2 60GB Storage Now Shipping... (continued from page 1)

existing capital investments. To provide a smooth transition for customers, in February 2007 Plasmon unveiled a UDO2 Upgrade program that enables customers to purchase a UDO Archive Appliance or G-Series library with UDO1 today, and upgrade to UDO2 anytime during 2007 for a minimal upgrade cost.

Thousands of organizations worldwide rely on a UDO technology, including the Archive Appliance or a G-Series library, as the foundation for their archival storage strategy and to optimize their storage infrastructure. UDO archive solutions have been deployed in an impressive range of business environments that include:

- Financial Services
- Insurance
- Medical Imaging
- Government
- Security and Surveillance
- Legal and Law Enforcement
- Biotech and Pharmaceutical
- Engineering and Design
- Manufacturing/Construction
- Retail and Entertainment
- Broadcast and Publishing

UDO media is available in WORM (Write Once Read Many) and Rewritable media formats. UDO WORM media enables regulatory compliance, best practice and audit trail management and is ideal for your applications that require records be archived in a non-erasable format for legal

admissibility. UDO Rewritable media is used for more general archive requirements that demand data longevity while allowing older records to be erased and media space reused.

UDO technology is also designed for the future with a roadmap that includes 120GB and 240GB media capacities. As with past generations, all new technology is backward read compatible to ensure long-term data access and to maximize your investment protection. Call CUC today for more information or a quotation on UDO2 drives, media, automated libraries or turnkey UDO-based Archive Appliance products.



www.nabshow.com

CUC To Exhibit At Upcoming NAB 2007 In Vegas

Computer Upgrade Corporation (CUC) will be exhibiting in several locations at the upcoming NAB 2007 conference in Las Vegas, April 16-19th. As the premier integration partner in North America for SGL and their FlashNet content and media archive management software, CUC will be exhibiting their MediaVault/NAS archival storage solution in the SGL Booth # SU-8607. CUC

will also be exhibiting in the Asaca booth #SL-2612, a manufacturer of blu-ray optical storage automation products for Broadcast. CUC's OmniLib/BD3 blu-ray storage subsystems offer online capacities ranging from 12TB to 72.5TB per cabinet. CUC will also be exhibiting in the Plasmon booth # SU-13212, manufacturer of the Ultra-Density Optical (UDO) 60GB drive, media and auto-

mated library archival storage products. With capacities ranging between 1TB to over 38TB per library, CUC's OmniLib/G series subsystems are now available with UDO2 technology.

CUC will also be exhibiting in the Qualstar booth # SU-13611 and will be showing the OmniLib/XLS tape library products with the new LTO4 800GB fibre channel Ultrium tape technology.

ULTRIUM LTO



LTO4 drives and media will be shipping in May 2007 from a variety of vendors, offering 800GB native and 1.6TB compressed capacity per cartridge.

SGL Releases FlashNet Version 6 High-Availability

Software Generation Limited (SGL) of Southampton Hants, UK announced the release of their flagship FlashNet version 6 for highly distributed, high-availability clustered broadcast storage environments. While offering flexibility and transparency to the rest of the broadcast installation, FlashNet 6's new clustered architecture allows multiple servers to perform as a single entity. FlashNet can be installed on one, ten or even hundreds of

nodes within the cluster to offer high-availability, high-performance scalable automate archival storage management. Coupled with intelligent load balancing and I/O redundancy, and a clustered SQL metadata database, FlashNet maximizes the utilization of all cluster node resources for optimal throughput and data integrity. FlashNet now supports the latest Blu-ray, LTO4 and UDO storage technologies for secure, long-term archival



storage of all your Broadcast content, including Apple, Avid Interplay, GrassValley, Harris/Leitch, Sundance, Pro-Bel and more. As the premier SGL FlashNet Solutions Provider here in North America, contact CUC today for more information or a quote, or you can visit SGL online at: www.sgluk.com



CUC Announces *OmniStor/3160* Subsystem

CUC announced the release of the new RoHS-compliant OmniStor/3160 RAID 4Gb Fibre-channel storage subsystem, supporting multiple RAID levels and stripes within a single disk group for RAID 0, 1, 3, 5, 6, 10, 30, 50, 60, JBOD and NRAID configurations. Utilizing sixteen (16) of the latest 750GB SATA-II disk drives, the OmniLib/3160 can store over 10 hours of 10-bit uncompressed HD source content, enabling cost-effective and reliable digital asset storage.

"Our customers will be very impressed with the performance and quality of the OmniStor/3160," said Derek Black, CUC's Engineering Director. "The OmniStor/3160 successfully sup-

ports multiple uncompressed HD and SD streams simultaneously."

"Our new OmniStor/3160 enables our Broadcast partners to immediately realize both increased performance and significant cost savings for high-resolution programming at a fraction of the cost of competitive HD-capable storage technologies", said Scot Lamb, CEO at CUC.

"Our broadcasting, post production and project studio users will appreciate the performance and simplicity of OmniStor/3160", said Paul Thurman, VP Sales at CUC. "Cost-effective, high-performing, plug-and-play storage are always welcomed".

Coupled with an intuitive "web-based" graphic user interface that enables complete storage control anytime anywhere, OmniStor/3160 provides both customizable SNMP and SMTP notification capabilities. Certified by Microsoft Multi-path I/O (MPIO), OmniStor/3160 allows for fault tolerance against single-point of failure and load balancing of I/O traffic. Built-in enterprise features like Snapshot and dynamic online RAID expansion enable OmniStor/3160 to optimize application performance and increase productivity results in HD and SD post production environments. Call CUC today for configuration options and the latest pricing!

What some of our customers have to say..



"It is hard to find a company with a good product and good support after the sale. CUC Solutions has proven to be one of those.... The Mediacvault NAS has performed flawlessly and the data transfer rate is close to the rated capacity."

David Easley, IT Director, OETA-TV



"CUC continues to provide excellent self driven service and has provided upgrades to enhance the operation of the system. For an excellent cost factor over other systems, we have reliably entered a new age in our program storage operation. The system also provides much needed fiber connected storage for our two Final Cut Pro edit rooms easing what has always been a challenge for ongoing production storage needs."

Thaddeus Faherty, Asst. Chief Engineer, KVPT

Qualstar and CUC Announce Release Of LTO4-based Libraries

Qualstar and CUC have begun shipment of LTO4-based tape libraries. Each LTO4 tape cartridge holds 800 gigabytes of native data, or 1.6 terabytes using typical compression techniques, making it the industry's leading tape technology. The data transfer rate is equally impressive: 120 megabytes per second or 432 gigabytes per hour native, and double that using compression. LTO4 is backward read compatible with

LTO3 and LTO2 media, assuring continuity for archives. Notably, any existing Qualstar TLS, RLS or XLS library can be upgraded in the field to support these latest drives, reaffirming Qualstar's commitment to building *Simply Reliable* products that deliver solid technical and business benefits. Qualstar LTO4-based *OmniLib* Series tape libraries from CUC span capacities from 8.8 terabytes to 10

petabytes, with eleven rack mountable and freestanding *OmniLib/TLS* and *RLS* models to choose from. The *OmniLib/XLS* Enterprise Library Systems can house over 6,000 cartridges utilizing Qualstar's patented Compass Architecture™ to achieve very high cartridge densities and low power consumption. For additional *OmniLib* Series LTO4 product information, please contact CUC today.

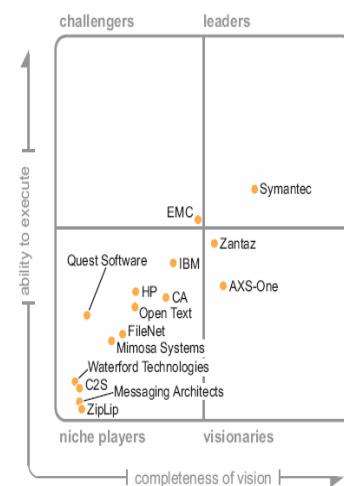
Low-Cost Broadcast Archiving With Big Station Functionality

With the continued fast-paced transition from DV25 SD format, typically utilizing 11GB/hour of data storage space, to HD that on average generates 320GB/hour of raw video data, small and large stations alike are facing monumental asset and content management storage dilemmas. Whether you are a large station that generates over 2,500 hours+ of content annually, with a correspondingly matching capital equipment and software budget, or a small

station with under 500 hours of annual content operating on public funding and limited or non-existing budgets, ultimately will need an archive system to protect these valuable video assets. This only accounts for new video content generated... so what about all those thousands of hours of analog video assets sitting in warehouses and storage shelves? Ingesting, digitizing, low-res proxy creation and ultimate archive for later network web-based

retrieval of these valuable hires assets is of paramount importance when architecting an archival storage solution. Fundamental considerations should include the following:

- Average annual hours of video generated and at what bit rate;
- Total hours of legacy video to be digitized and archived;
- Overall archival storage size required to store content for 3–5 years;



Source: Gartner (May 2006)

EMAIL ARCHIVE MAGIC QUADRANT

The corporate e-mail market will reach \$2.7billion in revenues in 2007, growing to \$4.0billion by 2011. The email archiving market alone is expected to reach \$1.2billion in 2007.

Source: Radicati Group

(Continued on back page...)



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Computer Upgrade Corporation (CUC) was founded in 1986 and is one of the most experienced archival data storage specialists in the nation. CUC is a full-service data storage systems integrator and solution provider offering installation, training, after sales support and annual maintenance. Our focus is to manage and protect the media/data crucial to our client's business success. Whether you are just looking for an easy fix for your next storage hurdle or a complete solution for your next decade of growth, CUC has the knowledge and experience you need to cost-effectively move forward with confidence.

CUC's Broadcast Storage division has been working with best-of-breed vendors to offer the Broadcast and Editing /Post Production industries digital storage solutions for video playback and archive. CUC has positioned itself with a wide variety of automated storage library and storage management software vendors to enable seamless integration with nearly all automation, on-air media

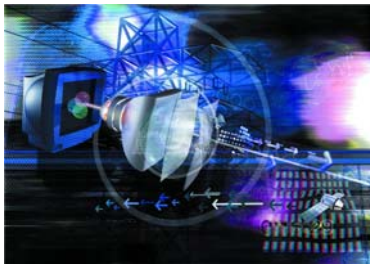
and NLE manufacturers. Over twenty (20)+ years of system integration expertise is what sets us apart from our competitors. Over the years, CUC has thrived by taking the extra effort to earn our customers' trust. We have found that if we take the time to get to know a business and prove our value, they will most often think of us when the time comes to make their next investment in storage technology.

It is our mission here at CUC to provide reliable, turn-key solutions to manage and protect the data and database infrastructures crucial to your business operation and success. We accomplish this by offering a proven mix of hardware, software, system design and technical support to enable backup/restore across multiple heterogeneous platforms with ease and accuracy.

CUC offers a complete line of archival, backup and disaster recovery subsystem solutions for a wide variety of host computer environments utilizing cost-effective stand-alone or library Blu-ray, NAS, RAID, SAN, Tape and UDO products for the OEM, Value-Added Reseller and End-User communities.

CUC offers nationwide on-site training, support and service for all the products we provide. Archival storage solutions offering peak performance from the first day they are installed is a primary objective here at CUC.

You can depend on CUC to provide complete, concise archival and backup system design solutions with reliable, customer-friendly service and support.



(from page 3) **Low-Cost Broadcast Archiving With Big Station Functionality**

- How to seamlessly interface with existing automation, on-air, traffic and NLE systems that will be NGIS compliant;
- Realistic disaster recovery requirements to ensure asset and revenue protection and overall business continuity;
- What archival storage format;
- Data retrieval requirements, including bandwidth, user interface, web access, etc.;
- Initial budget requirements to procure appropriate archival solution to meet these needs;
- On-going Annual maintenance and support budget requirements.

Even though the ACE consortium had put together a tightly integrated 'Station In A Box' solution, with an average cost of around \$1.5Million, it was quite prohibitive for small stations with little to no budget to purchase such a

solution. Yet even as these smaller stations continue to generate new HD content at an alarming rate, they have no cost-effective way to preserve and archive these assets for future potential revenue generation. Even with the latest and final phase of the NGIS project that is promising to unify the delivery and storage of HD content to any station, the NGIS matching technology grant program for 'catch server' technology acquisition still requires each station to go through the budget and grant process to receive the matching NGIS grant dollars.

So where does the small station with a limited budget, that desires and needs a turn-key, single-source vendor 'Station In A Box' solution that will capture, ingest, digitize, transcode, index, distribute, layout, post produce, provide

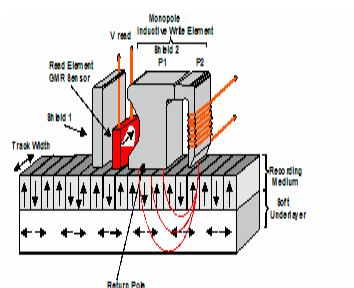
cost-effective remote access and ultimately archive both new HD content and legacy video assets turn to?

CUC Broadcast is working with a variety of broadcast vendors today in an effort to ultimately provide and obtain NGIS certification for a cost-effective 'Station In A Box' solution that will fit the budgeting constraints of the small and mid-size stations.

CUC Broadcast's new **OmniARC** appliance will provide multi-channel ingest, index, seamless integration with existing application servers, low-res proxy and hi-res archival storage capabilities at a fraction of the cost of competitive product offerings. **OmniARC**, scheduled to be available later this Fall, will truly revolutionize the way you manage your HD content.

Perpendicular Recording To Revolutionize Magnetic Disk Storage Capacities.

Perpendicular recording aligns the bits vertically, perpendicular to the disk, which allows additional room on a disk to pack more data, thus, enabling significantly higher recording densities. Hitachi claims 230GB/inch drives will ship in Q2 2007.



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