



Carnegie Mellon University Uses Sony PetaSite System for Data Management

For nearly three years, Carnegie Mellon University has relied on its Sony PetaSite® tape storage library to back up data for its students and researchers. More recently, according to the university, due to heightened awareness of federal privacy regulations and eDiscovery rules that require immediate data recovery for users in case of a lawsuit, storage and data management have become even more important to them.

"Having this level of data integrity is important to us," said Lou Anschuetz, network manager for the Electrical and Computer Engineering Department at Carnegie Mellon University. "Reliability is also a big issue for us since we run in a lights-out operation, so the system has to do back ups overnight. We needed and we got something that runs reliably without much intervention needed on our part. That was critical for us."

In November 2005, Anschuetz said he

and his team realized they had outgrown their current system, and due to the volume of data they were starting to accumulate, they needed to move to a denser format and a library that had more expansion slots.

"We found that the PetaSite system gave us the flexibility and expandability we would need, in addition to the security and data integrity," he said. "The drives and the library itself continue to trudge along day after day on their own, which is a good thing. We've already expanded the system once, and we'll probably be expanding it to the maximum cabinet size at some point, because the amount of data we're accumulating is expanding almost without bounds."

He said that expanding the system is a very simple process, requiring the download of a license key code that is inserted and increases the number of slots.

"There's minimal user intervention required," he said. "It runs in the background, it's simple and reliable."



Consolidated Storage Management System

PetaSite S-series

- Ideal for expanding medium to enterprise wide data storage – open automated tape library solution supports LTO and SAIT mixed media
- Optimize capitol investment – enterprise system reliability and performance with affordable scalability from 60 up to 2,988 cartridges and 96 tape drives in a single PetaSite S-series library system – Sony’s most scalable and reliable storage library
- SAN ready and system certified with Sony and leading A/V and IT Independent Software Vendors
- Fully redundant N+1 power and hot swappable components
- Advanced integrated PetaSite Controller Unit (PCU) enables remote administration, mixed media formats, flexible Ethernet (API) control, direct attached drive I/O and multiple logical library partitions
- Supported by Sony’s Professional Services (SPS) organization with integrated diagnostics, advanced remote monitoring and automatic system health checks

Specifications

Sony Part Numbers	CSM-60B	CSM-100B	CSM-200B	CSM-200D	CSM-200C
Description	Basic System (Fibre Channel/SCSI)			Drive Console	Cartridge Console
General Specifications & Performance					
Drives & Cartridge Slots / Storage Capacity					
0-4 Drives (number of slots)	60/48 TB	108/86 TB	216/172 TB	348/278 TB	396/316 TB
5-8 Drives (number of slots)	60/48 TB	108/86 TB	204/163 TB	336/268 TB	396/316 TB
9-12 Drives (number of slots)	60/48 TB	108/86 TB	192/153 TB	324/259 TB	396/316 TB
System Scalability	up to 86 TB (model CSM-100B) or up to 172 TB (model CSM-200B) via software license upgrade	up to 172 TB (model CSM-200B) via software license upgrade	up to 7 drives and/or cartridge consoles, 96 drives, 2.4 PB		
Cassette Exchange Time	400 Exchanges per hour		Average 360 Exchanges per hour		
Cassette Access Time	5 sec (average)				
Bar Code Reader	Barcode Reader standard (code 39)				
IN/OUT Magazine Port	6-cartridge capacity x 2				
Weight (Library only)	350 kg/772 lbs			250 kg/551 lbs	
Dimensions H x W x D mm/inches	1,980mm x 680mm x 950mm/77.95" x 26.77" x 37.40"				
Drive Technology	Refer to individual drive specification datasheet SAIT and LTO				
Reliability					
MTBF (Mean Time Before Failure)	300,000 hours				
MCBF (Mean Cycles Before Failure)	2,000,000 cycles				
MTTR (Mean Time To Repair)	Less than 30 minutes				
Environmental Condition					
Operating Temperature	10°C to 30°C				
Storing Temperature	-20°C to 60°C				
Operating Humidity	25% to 80% (without condensation)				
Power Requirements					
Power Voltage, Frequency	AC 100V - 240V, 50/60 Hz				
Power Consumption	650 VA (2 drives)				
Optional Accessories					

CSMADR200S SAIT Drive Unit, SCSI • CSMADR230F SAIT Drive Unit, Fibre Channel • CSMADRLTO3F LTO-3 Drive Unit, Fibre Channel • CSMADRLTO4F LTO-4 Drive Unit, Fibre Channel • CSMAPSL Redundant Power Unit - Library • CSMAPSD Redundant Power Unit Drive • CSMADIF Redundant Drive Control Unit • CSMU100B Model CSM60B to CSM100B Upgrade Kit • CSMU200B Model CSM100B to CSM200B Upgrade Kit

 sony.com/DataStorage

SONY

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