

CentricStor Virtual Tape Smart Backup Unit Tailored solution packages for mainframes

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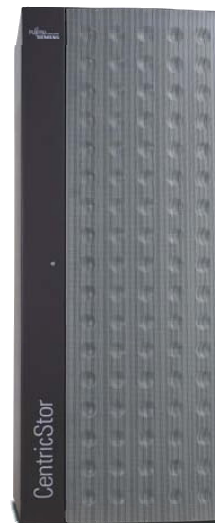
CentricStor VT (Virtual Tape) is the first virtual tape solution that provides intelligent data protection by storing all enterprise backup data autonomously on disk or on tape. This unique *Dual Target* storage solution exploits the best of disk and tape in a seamless manner thus making tape fit for Information Lifecycle Management (ILM).

CentricStor VT Smart Backup Unit

CentricStor VT Smart Backup Unit is a tailored virtual tape solution package for enterprises with mainframes at the lower end of the performance spectrum to innovate their tape operations on the basis of virtual tape technology by writing all data from internal cache to tape.

Some older drive technologies commonly used in mainframe environments are reaching the end of their lifecycle (36-track drive generation and Magstar via SP_CC).

CentricStor VT Smart Backup Unit represents an attractive and innovative solution for this segment and is offered as a solution package for the operating systems BS2000/OSD, z/OS, i5/OS, z/VM, or z/VSE. The solution provides access to state-of-the-art tape technology for hosts with ESCON (type S channel) or FC controllers. A Scalar i500 or SL500 tape system with LTO drives may be integrated, the necessary software components and control processors are to be supplied individually. CentricStor VT Smart Backup Unit can also be configured in a modular arrangement with other tape systems.



Exceptional characteristics

- Low-priced overall solution as entry in the virtual tape technology.
- Independent appliance with virtual tape interface for ESCON and Fibre Channel storage area networks.
- Compatibility of all CentricStor VT platforms.

Benefits

- Use of the actual tape technology also for legacy systems.
- Optimized storage on inexpensive media.
- Entry solution with a large number of virtual tape drives eliminates bottlenecks and saves costs.
- Virtual tape solution for nearly all kinds of interfaces of hosts and servers.
- Investment protection for server and applications.
- Data recovery in case of disaster for not mirrored CentricStor Virtual Tape Appliance configurations.
- Unique tape format for transport and exchange of tape media.

Legacy formats

The **TAPE-C4 data media format**, the format used for 36-track cartridges for the IBM 3490 MTC drives, is still in widespread use by customers, but drives of this type are no longer available on the market. With CentricStor VT Smart Backup Unit, customers can continue to write and read the TAPE-C4 format without needing to modify their application software, but at the same time can always use current drives as the physical hardware.

Channel converter

For hosts with **type S channel / ESCON** interface, an SP_CC channel converter was always required for the Magstar IBM 3590 drives. This converter is now in short supply. CentricStor VT Smart Backup Unit gives customers the option to use current, low-cost SCSI drives (LTO Ultrium) via their type S channel interface as virtual drives.

Change of technology

The **start/stop mode** of operation, which frequently arises in connection with mainframe applications, is preferably not to be recommended with the currently available low-cost drives. Using CentricStor VT Smart Backup Unit, the data streams are buffered in the cache and written to the physical data media in a single operation, which means that the drives can largely be operated in streaming mode and as a result are less exposed to mechanical stresses.

Supported Environments

Support of operating systems is equal for all CentricStor VT platforms. Restrictions exist with regard to the connection of tape libraries.

Technical Data

System

Number of host channels ¹⁾	2
Virtual tape drives / with expansion option	16 / 32
Physical tape drives (FC)	2
Capacity of cache native (GB)	830
Performance ²⁾ (MB/s)	350 / 250
Tape Library ⁴⁾	Scalar i500, SL500
Slots for data cartridges (Option)	36 or more
LTO 4 tape drives (Option)	2 or more

¹⁾ 2 channels ESCON (Type S) or FC, optional 4 channels.

²⁾ Data throughput for read / write from and to the host with compression

Software (optional)

CentricStor VT Smart Backup Unit				
BS2	z/OS	i5/OS	VM	VSE

ROBAR-SV, -SV-SP, -CL, MAREN-CS100 ROBAR- control proc.	•				
LMS FSC Gateway with control proc.		•	•	•	•
Client for z/OS		•			
LMS Client for i5/OS			•		
LMS Client for z/VM				•	
LMS Client for z/VSE					•

Compatibility between all CentricStor VT systems

For customers with a CentricStor Virtual Tape Appliance, the CentricStor VT Smart Backup Unit can serve as a **disaster recovery** tool. The data media written by all CentricStor VT systems of are fully compatible. Easy exchange of media is possible.

Individual solutions

A **CentricStor VT Controller** can be delivered for individual configurations without library, operator panel and rack and can be installed in a 19" rack requiring 4 U. If so the infrastructure must be provided by the customer.

CentricStor VT solution platforms

Following CentricStor VT solutions are available with various configurations:

- CentricStor Virtual Tape Appliance
- CentricStor VT Disk Library Edition
- CentricStor VT Controller
- CentricStor VT Smart Backup Unit
- CentricStor VT Compact Package

For special configurations ask your local Fujitsu Siemens Computers representative.

Additional information is available at <http://www.centricstor.com>

Physical

Height (mm)	1,825
Width (mm)	700
Depth (mm)	1,000
Total weight (kg)	281

Electrical

Rated voltage	230 V
Apparent power (VA)	1,198
Heat (BTU/h)	3,650

Environmental

Product class	B
Room supply air	yes
double bottom supply air	no
Temperature (°C)	15 to 35
Rel. humidity (%)	20 to 80
Max. permissible dew point temperature (°C)	26

Standards compliance

Safety	EN 60950 / IEC 950 VDE 0805 UL 1950 CSA 22.2 No. 950
Radiation, RFI suppression	CE mark, FCC Class A * (EN 55022B, EN 50082-1)
Operating noise (dB(A))	< 51

* This product, together with the Fujitsu Siemens released accessory components / -material, is in compliance with the objectives of emission class A. In certain cases measures have to be taken to reduce the electro magnetic influence to other equipment.