ACSLS MANAGER™

STORAGETEK ®

SOFTWARE

Key benefits

Centralize storage
ACSLS Manager software enables a centralized storage operations model that allows you to manage more with less.

Reduce costs
Library resource sharing reduces capital equipment, maintenance and operating costs while simplifying library management.

Increase availability
ACSLS Manager software helps you keep your business up and running. The ACSLS High Availability solution goes even further, providing dual-server, fault-tolerant protection.

Prevent downtime
The ACSLS High Availability solution provides serviceability and redundancy features to minimize scheduled and unscheduled downtime.

Protect your investments
A highly flexible client/server architecture supports your legacy systems to protect capital investments in libraries, drives and software applications.

Leverage leading technology
ACSLS Manager software is interoperable with the leading backup/recovery and HSM applications.

Enhance security
ACSLS Manager software offers enhanced security features to protect data from unauthorized access.

ACSLS Manager™ software

Management of distributed tape libraries is both time-consuming and costly. Multiple libraries. Multiple backup applications. Multiple administrators. Poor resource utilization. It all adds up to a high cost of ownership. The Automated Cartridge System Library Software (ACSLS Manager™) offering from StorageTek® solves this problem by centralizing the management of your tape libraries — for easier administration, increased utilization and a lower cost of ownership. In short, ACSLS Manager software helps you unleash trapped profits.

A strategic solution

Centralized management

ACSLS Manager software allows you to implement a strategic, centralized library management solution. It functions as a central service provider for StorageTek library operations in heterogeneous environments. It allows you to collapse disparate, application-dedicated libraries to one centralized library or string of libraries accessed via a single point of control.

ACSLS Manager software works seamlessly with today's most popular operating systems and backup products to leverage the benefits of efficient, cost-effective StorageTek libraries. It supports more than 30 of today's most popular tape management systems and more than 10 different StorageTek libraries.

ROI advantages

ACSLS Manager software is designed to interoperate with major operating systems, backup/recovery software and HSM applications to support a heterogeneous systems environment. This allows you to consolidate your library resources, load balance them and fully utilize your available storage capacity.

This eliminates the need to purchase additional direct-attach libraries while other dedicated libraries in your arsenal remain partially used. The resulting library architecture can help you reduce capital equipment, maintenance and personnel costs.

Simplifying the client/server architecture

ACSLS Manager software has demonstrated its ability to work consistently and reliably over the years in thousands of enterprises. It allows any supported application, or combination of supported applications, to dynamically allocate library resources without hard-partitioning tape slots in the library. Yet, to each application, the libraries appear to be operating under their exclusive control.

Continuous business operations

Whether you earn revenues through e-commerce, have global operations or have to complete backups during tight windows, ACSLS Manager software helps your tape operational environment meet your high availability objective. Its dynamic drive upgrade feature allows you to dynamically update and hot-swap drives and change their configurations without having to restart the application.

ACSLS High Availability solution

Minimize downtime

For maximum business continuity protection for your StorageTek libraries, look to the ACSLS High Availability (ACSLS HA) solution. It helps you eliminate single points of failure in the management of your StorageTek tape libraries.

The ACSLS HA solution relies upon a dual-server configuration, housing your library management ACSLS application on two separate servers. In the event of a hardware or software error, the ACSLS HA solution automatically fails over to the redundant server to enable continuous library control and access to data.

Investing in the ACSLS HA solution can help you minimize both unplanned and planned downtime, especially in lights-out data centers, to improve data access and greatly reduce the costs associated with such outages. For large enterprises, the ROI benefit of an ACSLS HA solution could literally pay for itself by preventing even short periods of unexpected outages or by reducing the maintenance window that cuts into productive operations time.

StorageTek Professional Services support

StorageTek fully supports the ACSLS HA solution. The StorageTek Professional Services team can design, implement and test your ACSLS HA solution implementation. StorageTek has the resources you need to get your ACSLS HA solution up and running in short order.

ACSLS Manager software features

Rich management capabilities

ACSLS Manager software helps you fully optimize your libraries with advanced features like auditing, reporting, event-log recording, querying, issuing service requests and automated drive cleaning. These features provide exceptional operational flexibility.

The display command report allows users to obtain information about the ACSLS Manager software database using highly customizable queries. The event notification feature informs users of volume and library status changes as well as hardware errors.

Robust cartridge and volume support

Cartridges that cannot be found in the library due to ejection or absence are marked absent rather than being deleted. These cartridges are easily reactivated and ready for immediate use upon re-entry into the environment. ACSLS Manager software recovers volumes that are not found in their expected locations in the library by searching all of a volume's recorded locations instead of automatically deleting it.

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Cartridge exchange support

ACSLS Manager software supports enterprise environments by utilizing the pass-through-port feature of StorageTek tape libraries. This enables StorageTek libraries to exchange cartridges between library storage modules to optimize the use of those resources. If all of a library's tape drives are busy and a cartridge resident in that library receives a mount request, the requested cartridge can be passed to another library with the nearest available transport for continuous operation.

Access control

Administrators can selectively limit client access to ACSLS Manager software commands through passwords and permissions. The ACSLS Manager software server itself can be protected behind a firewall. ACSLS Manager software also supports a locking mechanism so that tape drives can be selectively allocated to multiple users or dedicated to a single user.

Dynamic resource management

The media pool feature allows you to assign each application or user its own pool of tapes to manage. In addition to supporting high and low watermarks, it provides a common scratch tape pool for applications to draw from. Pools can easily span physical libraries, making it easy to scale your library environment to accommodate growth or additional applications.

The drive upgrade feature allows you to conduct near-continuous operations by dynamically updating drives and configurations without restarting the application.

Mixed media support

ACSLS Manager software lets you choose the right mix of drive and media cartridge types in the same library, to tune your resource use for its most cost-effective configuration.

Options

- Library Attach software enables ACSLS Manager software to manage applications running in Windows environments. It uses a TCP/IP network to provide a seamless connection between Windows backup applications and ACSLS Manager software.
- MVS Client System Component (MVS/CSC) software enables ACSLS Manager software to manage applications running in MVS environments. It allows MVS and non-MVS clients to share library access.
- RMLS Client System Component (RMLS/CSC) software enables ACSLS Manager software to manage applications running in AS/400 environments. It expands AS/400 connectivity to the StorageTek tape library product line.

To learn more

To learn more about the ACSLS Manager software and how it can help you unleash trapped profits in your storage environment, talk to your StorageTek representative.

What's new

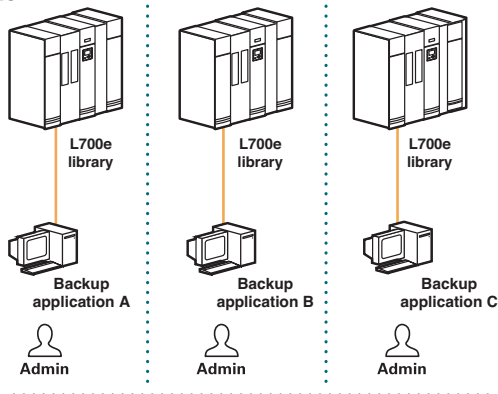### Added capabilities in ACSLS Manager 7.0 software

The newest release of ACSLS Manager software includes features for easier management, enhanced performance and more. The ACSLS Manager 7.0 software enables:

- Easier importing of data to a new release of ACSLS Manager software or to a new OS platform
- More efficient volume recovery during mount and dismount processing volumes
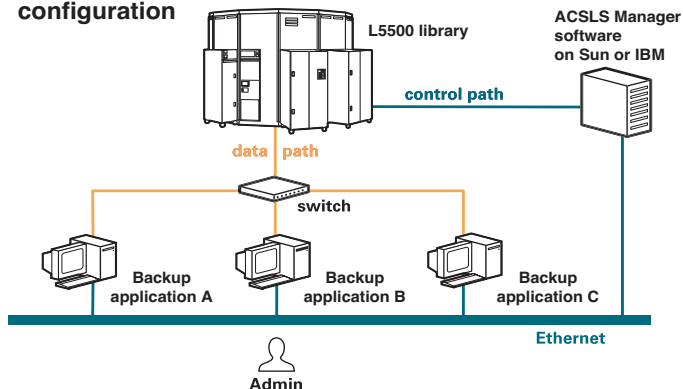
Other enhancements:

- A new reporting feature indicates the number of mounts and the duration of mounts with drive and volume information.
- Version 7.0 includes an SNMP agent that allows you to monitor ACSLS Manager software-controlled libraries from a system management framework such as CA Unicenter, HP OpenView or Tivoli NetView.

Initial state

L700e library — **Backup application A** — **Admin**
L700e library — **Backup application B** — **Admin**
L700e library — **Backup application C** — **Admin**

Without ACSLS Manager software: Distributed management. Several administrators. Multiple libraries. Excess environmental consumption. Poor workload balancing and resource utilization. Higher total cost of ownership.

Final configuration

L5500 library
ACSLS Manager software on Sun or IBM
control path
data path
switch
Backup application A — **Backup application B** — **Backup application C**
Ethernet
Admin

With ACSLS Manager software: Centralized management. Single administrator, one library. Lower environmental consumption. Standard policy management. Balanced workload and resource utilization. Maximum storage efficiency. Lower cost of ownership.

ACSLS Manager™ software specifications

Operating environment	ACSLS	ACSLS HA
Minimum software requirements		ACSLS 7.0,
		ACSLS HA,
		VERITAS Foundation Suite HA
Minimum hardware requirements	128 MB RAM	44SF-28R Sunfire 280R server or 44SB-02K SunBlade 2000 server
	2.1 GB free 'primary hard drive' space plus 1.0 GB of secondary disk space	44SE-D2A Sun StorEdge D2 disk array
	CD-ROM for product installation on Sun or AIX platforms	SNFCS40 Brocade SilkWorm switch (optional)
	Offline database backup capability (recommended)	

Compatibility		
Supported operating systems	Sun Solaris 8.0 or 9.0	Sun Solaris 8.0 or 9.0,
		IBM AIX 4.3.3, 5.1 or 5.2,
		Linux RedHat 8.0
Supported storage systems	Tape libraries	Tape libraries
	TimberWolf 9740	TimberWolf 9740
	L700e	L700e
	L180	L180
	L20, L40 and L80	L20, L40, L80
	PowderHorn 9310	PowderHorn 9310
	L5500	L5500
	4410/ Genesis ACS	4410/ Genesis ACS
Supported client environments:	IBM MVS, IBM AS/400, UNIX, Windows NT (Intel and DEC Alpha) and Linux RedHat 8.0	IBM MVS, IBM AS/400, UNIX, Windows NT (Intel and DEC Alpha) and Linux RedHat 8.0

ABOUT STORAGETEK®

Storage Technology Corporation (NYSE: STK), a $2 billion worldwide company with headquarters in Louisville, CO, has been delivering a broad range of storage management solutions designed for IT professionals for over 30 years. StorageTek offers solutions that are easy to manage, integrate well with existing infrastructures and allow universal access to data across servers, media types and storage networks. StorageTek's practical and safe storage solutions for tape automation, disk storage systems and storage integration, coupled with a global services network, provide IT professionals with confidence and know-how to manage their entire storage management ecosystem today and in the future.

StorageTek products are available through a worldwide network. For more information, visit www.storagetek.com, or call 1.800.275.4785 or 01.303.673.2800.

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