



# StorageTek™ ACSL

**AUTOMATED CARTRIDGE SYSTEM LIBRARY SOFTWARE**

**Release Notes**

316121501

Version: 7.3



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# ACSL S 7.3 Release Notes

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ACSL S 7.3 uses the relational database PostgreSQL 8.1.4. The change to use PostgreSQL only changes the internal database used by ACSLS. It has no impact on the ACSLS API client interface or `cmd_proc`. The porting to use this new database includes basic database functions, back and restore utilities, as well as the import/export utility.

With ACSLS 7.3, we specify a minimum memory requirement of 512MB and a swap requirement of 1GB (on disk). This is a change from the current ACSLS minimum which is 256MB and 512MB of swap.

Please check the Sun website for any maintenance releases.

## ■ Software Requirements

- Solaris 10 Update 4 is the supported OS Level for SPARC and X86 platforms. The latest Solaris patch cluster is recommended. The patch update is required if you are using Solaris zones.

PostgreSQL 8.1.4 comes bundled with Solaris 10 Update 4.

- AIX 5.3 Technology Level (TL) 6

PostgreSQL 8.1.4 is not bundled with AIX 5.3, but is included with the ACSLS 7.3 CD. It must be installed separately.

## ■ Features and Enhancements

ACSL S 7.3 provides the following features and enhancements:

- Support for the Sun StorageTek SL3000 Library
  - ACSLS 7.3 includes support for new LSM and panel types and panel maps for the SL3000 Library
  - The SL3000 supports up to eight (8) partitions.
  - A new maximum numbers of CAPs (12), drives per panel (32), and cell rows (52) for the SL3000
  - ACSLS 7.3 supports the ability to dedicate a CAP to a partition within the SL3000.
  - CAPS are dedicated to a partition via SLConsole. The library reports dedicated CAPs to ACSLS.

- SL3000 CAP Aliasing

The SL3000 has 12 CAPs, but some backup applications currently only support a maximum of 3 CAPs per LSM. CAP aliasing lets you alias CAPs 3-10 as CAPs 0, 1, or 2.

**Note:** New behavior for SL3000 requires an initial audit.

After reconfiguring or repartitioning an SL3000, or after changing your licensed capacity, you must audit the library before using it or before entering volumes. Any change in the partitioning scheme will re-define which storage cells are accessible to ACSLS. Consequently, an audit is necessary in order for ACSLS to discover the accessible cells.

- New drive and volume status information

ACSL 7.3 receives additional drive and cartridge status information from recent tape drives. It saves this in the drive and volume records in the database. The “display drive” and “display volume” commands were enhanced to display this new information.

**Note:** This new information is only reported from new drive and library models.

- Alphanumeric volume ranges

As a user-selectable option, ACSLS 7.3 supports alphanumeric vol\_id ranges in ACSLS commands such as eject, set owner, set scratch, set clean and volrpt.

- Drive load balancing

“query mount” returns drives within the same pass-thru distance from a volume in least-recently-used order. The drive with the oldest dismount time is considered the least-recently-used drive. This allows users to both optimize library pass-thru performance and balance the use of their tape drives.

- Move to specific cell

ACSL 7.3 lets you move cartridges to a specified cell location.

The SL3000 can partition down to the drive and cell level. If cells are reassigned from one partition to a different partition, cartridges in those cells will be orphaned, and they will no longer be accessible by the partition that they were in before. To avoid this, before re-partitioning an SL3000, move cartridges to cells that will remain in your partition.

- Desired state retention

When a user varies an ACS or port online or offline, the “desired state” records their wishes. If the ACS is inoperative or the port connection drops, the actual state shows this. As soon as the ACS or port connection

is available again, it is brought online if the desired state is online. The command “query lmu” shows the desired state for ACSs and ports.

- Specify ACS numbers

ACSLs allows users to skip ACS numbers when configuring libraries. Both `acsss_config` and Dynamic Config support specifying and skipping ACS numbers.

For example: After migrating from an ACS 0 of 9310s to an ACS 1 of SL8500s, you can remove ACS 0 without renumbering the drive and volume IDs in the remaining SL8500 ACS 1.

- Fast audit

A new field in the celltable tracks that last time the status of the cell changed.

Audit only rechecks cells whose status changed after we started auditing their panel.

- Check for prior release compatibility

ACSLs 7.3 will not allow library configurations that are not supported in earlier ACSLS releases to be exported to those releases. (For example, you cannot export an SL8500 to ACSLS 6.1.)

- Enhanced Eject behavior.

Ejects from `cmd_proc` receive intermediate eject responses when a CAP is full.

A new dynamic variable, `EJECT_RESPONSE_ON_CAP_FULL` determines whether ACSAPI clients receive an intermediate eject responses when `MAX_ID` volumes have been moved to the CAP or when a full CAP of volumes has been ejected.

