

# StorageTek Automated Cartridge System Library Software

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Release Notes

Version 7.3.1



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# Release Notes

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Oracle's StorageTek ACSLS 7.3.1 uses the relational database PostgreSQL. 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 7.3.1, we specify a minimum memory requirement of 512MB and a swap requirement of 2GB (on disk).

Please check the website for any maintenance releases.

## ■ Software Requirements

ACSLS 7.3.1 requires the following software levels:

- The minimum supported Solaris version is Solaris-10, Update-4 (08/07). A supported version of PostgreSQL is included as part of the standard Solaris installation and no special installation procedures are necessary for PostgreSQL. If you are running in Solaris Zones, be sure to apply the latest Solaris patch cluster.
- AIX 6.1 base or TL1. The PostgreSQL 8.1.4 database is supported, but is not bundled with AIX. It is included with ACSLS 7.3.1, and must be installed separately.

## ■ New Features and Enhancements

ACSLS 7.3.1 now supports the following new features and enhancements:

- T10000C
- HP-LTO5
- IBM-LTO5
- Redundant Electronics (RE).

ACSLS now connects to multiple SL8500 libraries with RE in a string and accurately tracks and reports the status of each connection. When RE is installed and licensed in a library, ACSLS identifies which Library Controller card (LC) is active and only sends requests to the active LC on each library.

You **must** upgrade to ACSLS 7.3.1 before installing the RE library firmware (SL8500 6.00 firmware).

- ACSLS Tracks both the Desired State and the Current State of LSMs and Tape Drives

Current state is now tracked more accurately than before, reflecting whether a library component is ready and communicating, limited by the desired state of the component.

The desired state manages library and tape drive availability. Desired state is the availability that that you want for an ACS, port connection, LSM, and tape drive. You set the desired state via the vary command. The desired state for any of the library components can be viewed using the query lmu and display commands.

ACSLs now accurately tracks the current state of LSMs and drives. For example, if the desired state of an LSM is online but it is not ready, its current state is offline.

The desired state for ACSs and ports is already supported, and ACSLS has tracked the current state of ACSs and ports for years.

- Queue and Retry Mounts and Dismounts when the Library is Temporarily Unavailable

ACSLs now queues and retries mount and dismount requests for clients when temporary library outages are detected.

Temporary outages occur when the desired state of the library hardware is **online**, but the current state is **offline**. Examples of temporary outages are: when an LSM door is open; when ACSLS loses communications with a library; or during an LC switch operation. During a temporary library or tape drive outage, mounts and dismounts are queued, and are retried when the library is available.

If the desired state of the library hardware is **offline**, then ACSLS fails mount or dismount requests with the appropriate error status.

New dynamic variables control queuing and retrying mounts and dismounts:

- MOUNT\_RETRY\_DELAY controls how often queued mounts and dismounts are retried or availability of libraries and drives are re-checked.
- MOUNT\_RETRY\_TIME\_LIMIT is the time limit to queue and retry mounts and dismounts. After this, requests fail.

- No Longer Requires Software Licenses

Beginning with StorageTek ACSLS version 7.3.1 the right-to-use license is no longer enforced in StorageTek ACSLS, and ACSLS no longer checks for a valid license key. Messages regarding a soon-to-be-expired license key or library capacity license no longer appear on the system console or in the `acsss_event.log`.

The following utilities no longer function in their capacity to set and check for a valid license key:

- licensekey.sh
- get\_license\_info.sh

To view your library slot usage use the free\_cells.sh utility.

- Oracle Branding Changes

ACSLs 7.3.1 has been re-branded as an Oracle product.

- New testports Utility

A new testports utility tests the connection to TCP/IP libraries and whether the ACS and port connection is online or offline.

