

StorageTek Automated Cartridge System Library Software

Release Notes

Version 7.3.1



Part Number: 316137801
May 2010, Revision AA

Submit comments about this document by clicking the Feedback [+] link at: <http://docs.sun.com>

Copyright © 1989, 2010, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related software documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation shall be subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License (December 2007). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications which may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure the safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. UNIX is a registered trademark licensed through X/Open Company, Ltd.

This software or hardware and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Summary of Changes

7.3.1 EC released document table.

EC	Date	Edition	Revision	Description
EC001630	May 2010	First	AA	This release supports: <ul style="list-style-type: none">• Redundant Electronics.• In this release software enforcement of the right-to-use license is no longer employed in ACSLS. and no longer checks for a valid license key

Summary of Changes

Release Notes

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 1GB (on disk).

Please check the website for any maintenance releases.

■ Software Requirements

ACSL 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 the ACSLS 7.3.1 CD, and must be installed separately.

■ New Features and Enhancements

ACSL 7.3.1 now supports the following new features and enhancements:

- Redundant Electronics (RE).

ACSL 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.

