StorageTek Automated Cartridge System Library Software

Quick Reference

Version 7.3.1

Part Number: E22334-01
March 2011

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StorageTek Automated Cartridge System Library Software Quick Reference Guide
Part Number: E22334-01

Summary

Part Number	Date	Description
E22334-01	March 2011	ACSLS 7.3.1 supports: • Redundant Electronics. • HP-LTO5 • IBM-LTO5 • T10000C • Software no longer enforces the right-to-use license nor checks for a valid license key

ACSLS Quick Reference

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Throughout this quick reference, underlines show valid command and keyword abbreviations. For example, aud is an abbreviation of the audit command. Brackets [ ] enclose optional parameters. A vertical bar (|) separates parameter choices.

Command Identifiers

Each command identifier corresponds to a type and consists of one or more components separated by commas.

acs_id	acs(0-31)	
cap_id	acs(0-31),lsm(0-99),cap(0-11) An asterisk (*) in a *cap_id* does the following:	
	acs,lsm,*	causes ACSLS to select the highest priority available CAP in the LSM.
	acs,*	causes ACSLS to select the highest priority available CAP in the ACS
	*	for an enter request causes ACSLS to select the CAP in the ACS with the most free cells.
	*	for an eject request causes ACSLS to select the highest priority CAP in each ACS with a volume designated for ejection.
cell_id	acs(0-31),lsm(0-99),panel(0-50),row(0-41),column(0-23)	
drive_id	acs(0-31),lsm(0-99),panel(0-50),drive(0-31)	
drive_type	Up to 10 characters transport type identifier; can be any combination of numbers (0-9) or letters (A-Z).	
lock_id	decimal number (0-32767)	
lsm_id	acs(0-31),lsm(0-99)	
media_type	Up to 10 characters media type identifier; can be any combination of numbers (0-9) or letters (A-Z). Spaces are not allowed. A common media type is the STK1R.	
owner_id	volume owner	
panel_id	acs(0-31),lsm(0-99),panel(0-50)	
pool_id	decimal number (0-65535) Specifying an asterisk (*) for the *pool_id* reassigns a volume to its current *pool_id*	
port_id	acs(0-31),port(0-15)	

request_id	unique decimal number (0-65535) assigned by the ACSLS.
subpanel_id	acs(0-31),lsm(0-99),panel(0-50),startrow(0-41),startcolumn(0-23),endrow(0-41),endcolumn(0-23)
vol_id	Six-character identifier consisting of any combination of numbers (0-9), letters (A-Z, a-z, or mixed case (except for use in volrpt)), dollar sign ($), pound sign (#), and leading and/or trailing spaces ( ). Use single or double quotes to enclose *vol_ids* with leading or trailing spaces. *Do not* specify *vol_ids* with embedded spaces.
volrange	Specifies an ascending range of volumes separated by a dash. For volranges in query, enter, and eject commands: If it is a numeric range, specify only the right most numeric portions of the *vol_ids* as the range. All preceding characters *must* be identical. The display commands support full alphanumeric volranges and allow wildcards '*' and '_'.

Auditing the Library

Audit the entire library - updates library configuration	audit *cap_id* server
Audit an ACS	audit *cap_id* acs *acs_id*
Audit an LSM	audit *cap_id* lsm *lsm_id*
Audit an LSM panel	audit *cap_id* panel *panel_id*
Audit an LSM subpanel	audit *cap_id* subpanel *subpanel_id*

Configuration

Run the configuration script	acsss_config
Display values of dynamic options	dv_print
Display values of static options	dv_config -s
Display values of dynamic and static options	dv_config -d

Configuration - Dynamic

ACS Add a new ACS Reconfigure an existing ACS	 config acs new config acs *acs_id*
Drives Reconfigure all drives on an existing drive panel. This includes adding drives, updating drive types and serial numbers for existing drives, and deleting drives that were removed from the database.	 config drive(s) *panel_id*
LSMs Reconfigure an existing LSM and all its components, which include CAPs and panels. Note: Use config acs to add or delete an LSM in an ACS	 config lsm *lsm_id*
Ports Reconfigure port connections to an ACS.	 config port(s) *acs_id*

Displaying Status

Display CAP information	display cap *cap_id* ... [-availability *cap_availability* ...] [-status *cap_status* ...][-priority *cap_priority* ...] [-state *cap_state* ...] [-manual | -automatic] [-condition *cap_condition* ...] [[-c] | [-f *field* ...] [-s *sort_field* ...] [-n *n*]]
Display cell information	display cell *cell_loc* ... [-status *cell_status* ...] [[-c] | [-f *field* ...] [-s *sortfield* ...] [-n *n*]]
Display drive information	display drive *drive_id* ... [-status *drive_status* ...] [-state *drive_state* ...] [-type *drive_type* ...] [-volume *vol_id* ...] [-lock *lock_id*...] [-serial *drive_serial*_num ...] [-condition *drive_condition* ...] [[-c] | [-f *field* ...] [-s *sortfield* ...] [-n *n*]]
Display lock information	display lock *lock_id* ... [-user *user_id* ...] [[-c] | [-f *field* ...] [-s *sortfield* ...] [-n *n*]]
Display LSM information	display lsm *lsm_id* ... [-status *lsm_status* ...] [-state *lsm_state* ...] [-free_cells *cell_count* ...] [-type *lsm_type* ...] [-serial *lsm_serial_num* ...] [-condition *lsm_condition*] [-door_open | -door_closed] [[-c] | [-f *field* ...] [-s *sort_field* ...] [-n *n*]]
Display panel information	display panel *panel_id* ... [-type *panel_type* ...] [[-c] | [-f *field* ...] [-s *sortfield* ...] [-n *n*]]
Display pool information	display pool *pool_id* ... [-low_water *low_water_mark* ... | -high_water *high_water_mark*...] [-overflow | -no_overflow] [[-c] | [-f *field* ...] [-s *sort_field* ...] [-n *n*]]
Display port information	display port *port_id* ... [-online | -offline] [-name *port_name* ...] [[-c] | [-f *field* ...] [-s *sort_field* ...] [-n *n*]]
Display volume information	display volume *vol_id* ... [-home acs,lsm,panel,row,column...] [-drive *drive_loc* ...] [-data | -scratch | -clean] [-media *media_type* ...] [-pool *pool_id*...] [-standard | -virtual] [-status *vol_status* ...] [-entry *entry_date* ...] [-access *access_date* ...] [-lock *lock_id* ...] [[-c] | [-f *field* ...] [-s *sort_field* ...] [-n *n*]] [-max_use *max_use*] [-lock_time *lock_time*]

Maintaining the Database

Export database table data and ACSLS control database files to tape or a file. Use when reinstalling ACSLS or upgrading to a new ACSLS version using the same database.	db_export.sh -f [*db_file* | *tape_device]*
Import database table data and ACSLS control database files from the export tape or file. Use when reinstalling ACSLS or upgrading to a new ACSLS version using the same database.	db_import.sh -f [*db_file* | *tape_device]*
Back up the database	bdb.acsss -f [*backup_file* | *tape_device*]
Start up or shuts down the database	db_command start | stop | status | log_normal | log_verbose | log_level | stop_force
Recover the database after a database failure	rdb.acsss

Managing CAPS

Set CAP's entry mode (manual or automatic)	set cap mode manual | automatic *cap_id*
Set CAP's automatic selection priority	set cap priority *cap_priority cap_id*
Make manual mode CAP ready to enter labelled carts	enter *cap_id*
Make multiple CAPs in an LSM ready	enter *lsm_id*
Make CAP ready to enter unlabeled carts into library	venter *cap_id vol_id*

Managing Dual LMU

Display LMU and port status for both single-LMU and dual-LMU ACS configurations	query lmu *acs_id* ... | all
Manually switch ACS management from the ACS's master LMU to the standby LMU	switch lmu *acs_id*

Managing Locks

Set your lock ID	set lock *lock_id*
Display your current lock ID or user ID	show lock | user
Lock a volume or drive (to your current lock ID)	lock drive | volume *identifier*
Remove active locks (to your current lock ID) on specified drives or volumes or all active locks	unlock drive | volume *identifier* ... | all
Remove all active and pending locks on specified drives or volumes	clear lock drive | volume *identifier*

Managing Scratch Pools/Volumes

Create or modify scratch pools	define pool *low_water_mark high_water_mark pool_id* ...[overflow]
Display scratch pool attributes	query pool *pool_id* ... | all
Display the status of scratch volumes in a pool	query scratch *pool_id* ... | all
Set volume's scratch attribute and assign the volume to a scratch pool	set scratch *pool_id vol_id* | *volrange*
Change volume from scratch to data	set scratch off *pool_id vol_id* | *volrange*
Delete an empty scratch pool	delete pool *pool_id* ... | all
Mount a scratch volume from a specified pool (single media libraries)	mount * *drive_id pool_id*
Mount a scratch volume from the common pool (single media libraries)	mount * drive_id
Mount a scratch volume from a specified pool with specific media type	mount * *drive_id pool_id* media *media_type*
Mount a scratch volume from a specific pool, media type based on scratch preferences defined	mount * *drive_id pool_id* media *
Mount a scratch volume from common pool, media type based on defined scratch preferences	mount * *drive_id* media *
Mount a scratch volume from common pool with specified media type	mount * *drive_id* media *media_type*
Display scratch pool information for a specific pool or for all pools	display pool *pool_id* ...| *

Display status of media-compatible transports for a specified scratch pool (or volume media type within the pool)	query mount * *pool_id* ... [media *media_type* | media *]

Managing Volumes

Mount a data volume or cleaning cartridge	mount *vol_id drive_id* [bypass] [readonly]
Dismount a data volume or cleaning cartridge	dismount *vol_id drive_id* [force]
Create a volume report	volrpt [-s vol | loc | use] [-d] [-f *filename*][-z] [-a | -l | -v *identifier_list*]
Use Display for dynamic reporting of library components and/or volumes.	See Display commands.
Set volume ownership	set owner *owner_id* volume *vol_id* | *volrange*
Eject volumes from the library	eject *cap_id vol_id* | *volrange* ...
Move volumes to a specified LSM	move *vol_id lsm_id*
Delete a volume in an offline LSM	del_vol *vol_id* -n -q
Move multiple cartridges to one or more LSMs.	moving.sh -f *vol_list_file* -t *lsm_id...*
Set cleaning cartridge attributes	set clean *max_usage* | *vol_id* | *volrange*
Set cleaning attributes back to data cartridges	set clean off *vol_id* | *volrange*
Display volume information for cleaning cartridges	display volume *vol_id* | *vol_range* | *-clean

Query Status

ACSLS and library status	query server
ACS status	query acs *acs_id* ... | all
LSM status	query lsm *lsm_id* ... | all
CAP status	query cap *cap_id* ... | all
Transport status	query drive *drive_id* ... | all
LMU and port status for both single-LMU and dual-LMU ACS configurations	query lmu *acs_id* ... | all
Media-compatible transports for a specified data volume	query mount *vol_id*
Media-compatible transports for a specified scratch pool (or volume media type within the pool)	query mount * *pool_id* ... [media *media_type* | media *]
Port status	query port *port_id* .... | all
Location of a volume	query volume *vol_id* ... | all
Cleaning cartridge status	query clean *vol_id* ... | all
Scratch volumes in a pool	query scratch *pool_id* ... | all
Scratch pool attributes	query pool *pool_id* ... | all
Request status	query request *request_id* ... | all
Display the lock status of a transport or volume	query lock drive | volume *identifier* ... | all
Display cleaning cartridge attributes	query clean *vol_id*... | all

Varying Library Components

Change the state of an ACS	vary acs *acs_id* ... online | offline | diagnostic [force]
Change the state of an LSM	vary lsm *lsm_id* ... online | offline | diagnostic [force]
Change the state of a CAP	vary cap *cap_id* ... online | offline | diagnostic [force]
Change the state of a transport	vary drive *drive_id* ... online | offline | diagnostic [force]
Change the state of a port	vary port _*port_id* ... online | offline