Sun StorageTek™ Common Array Manager CLI Quick Reference

This document lists the `sscs`(1M) subcommands that you can use to administer the Sun StorageTek™ 6130, 6140, 6540, 2500 Series Arrays, and FlexLine 240, 280, and 380 Systems from the command-line interface (CLI).

Using the sscs Command

Task	Steps
Invoke the `sscs` command.	To manage the Sun StorageTek arrays, use the `/opt/SUNWsesscs/cli/bin/sscs` command. From a terminal window, type the `sscs` command with a subcommand and any applicable parameters. **Note:** The `sscs` command has an inactivity timer. The session terminates if you do not issue any `sscs` commands for 30 minutes. You must log in again after the timeout to issue a command.

Task	Steps
Display a brief list of all subcommands.	Type one of the following commands: **sscs** [**-H**|**--help**] or **sscs -\?**
Display information about a specific subcommand.	Type the following command: **sscs** *subcommand* [**-H**|**--help**] For example, to show information about the **list** command, type **sscs list -H.** To show information specifically about the **list array** command, type **sscs list -H array.**
View the man page for 6130, 6140, 6540, 2500 Series Arrays, and FlexLine 240, 280, and 380 Systems.	**man -M /opt/SUNWsesscs/cli/man sscs**

Subcommand Syntax and Usage Conventions

Convention	Description
Bold	Text in bold should be typed exactly as shown.
Italic	Text in italics is variable and should be replaced with the name or value used at your site. Multiple variables can be separated by a comma and, optionally, a space. **Note:** You cannot use a space alone. The following examples show the correct use of commas and spaces in lists: **sscs list volume** TestVOL,fvm13311 **sscs list volume** TestVol, fvm13311
[ ] (square brackets)	Text in square brackets is optional.
| (vertical bar)	Text separated by a vertical bar is exclusive. Specify only one of the options.
{ } (braces)	Text inside braces is a required argument
Short and long names	The sscs command accepts short or long names for each option. Short name options require a single hyphen (-). Long name options require a double hyphen (--).
Special characters in names	Do not use spaces, commas, colons (:), or any of the following special characters: ? * ! @ % &

General Commands

Task	Command

Log in to the system's management host.
When you log in, you must specify the type of user you are logging in as and the management host name. The following list describes the short and long name command options for the `login` command:
`-u, --username`
Specifies the user name with which to log in. Valid user names are storage and guest.
`-s, --system-type`
Specifies the type of storage system you want to manage with the new login session. You will need to supply this option if you have two or more element management applications installed on the same host. In this case, you must specify which application you want.
`-h, --hostname`
Specifies the host name of the management host.
`-f, --force`
For management applications that only allow one login per user, this option forces a login to the management host if another storage user with the same user name is already logged in. The other user is logged out.
`-t, --http`
Log the user in using an HTTP connection.
	sscs login -u storage|guest **-h** *host-name* [**-s 6120** | **6130** |**6140** | **6540** | **6320** | **flx380** [**-f**] [**-t**]

Log out of the management host.	**sscs logout**
Display the version of the `sscs` software running on the management host.	**sscs -V**
Display the current date and time on the array in hours, minutes, and seconds.	**sscs list -a** *array-name* **date**
Change the date on the array.	**sscs modify -a** *array-name* [**-G** *true*|*false*] [**-s**] **date** [[*mmdd*] *HHMM*|*mmddHHMM* [*cc*] [*yy*]] [*.SS*]
List all jobs or only current jobs.	**sscs list -a** *array-name* **jobs** [*job-ID,...*]
Cancel or prioritize a current or outstanding job.	**sscs modify -a** *array-name* [**-k**] [**-p** lowest|low|medium|high|highest] **jobs** [*job-ID*]
List log messages, for a range of time or for the most recent ones.	**sscs list** [**-s** {[*mmdd*] *HHMM*|*mmddHHMM* [*cc*] *yy*} [*.SS*]] [**-f** {[*mmdd*]*HHMM*|*mmddHHMM* [*cc*] *yy*}[*.SS*]] [**-t** *number-of-messages*] **log**
Lists the Fault Management Service (FMS) event log information.	**sscs list** [**-s** <1..3>] [**-d** *<device_id>*] [**-t** *<type>*] [**-a**] [**-f** *<keyword>*] [**-l** *<limit>*] **event** [*<even_Id>*]

Task	Command
Add a user name to the user access list.	**sscs add -u** *user-name* **userrole** storage|guest
List the user name and user role information.	**sscs list userrole** [storage|guest]
Modify a user role.	**sscs modify** [**-u** *user-name*] [**-p** *password*] [**-i** *ANY*| *IP-address,...*] **userrole** [storage|guest]
Remove user names from a user role (storage or guest).	**sscs remove -u** *username,...* **userrole** storage|guest
List the site properties for this instance of CAM.	**sscs list site**
Modify the site properties for this instance of CAM.	**sscs modify** [**-r** *site_info* ,...] **site** [*site_info* **=** *value* ,...]
List the management software application that you are logged in to.	**sscs list mgmt-sw**
Modify the management software application that you are logged into.	**sscs modify -X** *storage-system-name* **mgmt-sw**
Show all of the operating systems that are supported by the array. The values returned can be used in subsequent requests to create or modify initiators, or to modify the default host type of the array.	**sscs list -a** *array-name,...* **os-type**
Show detailed performance statistics for one or more arrays.	**sscs list -a** *array-name,...* **-t** array_stats| controller_stats|volume_stats [**-c** A|B] [**-h** *host-name,...*] [**-g** *host-group-name,...*] [**-v** *volume-name,...*] [**-s** name | total_iops | read_percent | write_percent | total_data | avg_read_size | avg_read_rate | peak_read_rate | avg_write_size | avg_write_rate | peak_write_rate] **performance**
Show the current settings for one or more arrays, including state, polling interval, and data retention period.	**sscs list -a** *array-name,...* **-T performance**
Modify settings for performance monitoring. To reset performance settings, toggle the status to off and back on again.	**sscs modify -a** *array-name* [**-S** on|off] [**-p** 1|5|15] [**-r** forever|1HR|2HR|4HR|1DAY] **performance**
List the field replaceable components in this device.	**sscs list -d** *device-name* [**-t battery|ctrl|disk|midplane|pcu|sfp|all**] [**-s**] [**-f** *string*] [**-l** *string*] **fru** [*string,...*]

Alarm Commands

Task	Command
List the devices that are being monitored, or list specific information about one device.	**sscs list** [**-n** *device-ID*] [**-i** *IP-address*] **device**
Display a list of alarms with date and severity, or display specific information about one alarm.	**sscs list** [**-s** *string*] [**-f** *device-type*] [**-a** *service-advisor-ID*] **alarm**
Delete an alarm.	**sscs remove** [**-f** *device-type*] [**-s** 1|2|3] [**-A**] **alarm**
Display the current notifications for alarms.	**sscs list notification**
Enable remote notification or add a new notification.	**sscs add** [**-e** *email-address,...*] [**-i** *IP-address,...*] [**-t** 1|2|3|4|5] [**-l** warning|error|down] **notification** local_email|nscc_email|netconnect|trap
Remove a notification, from a specific source to a specific address, or of a specific type.	**sscs remove** [**-e** *email-address,...*] [**-i** *IP-address,...*] [**-t** 1|2|3|4|5] **notification** local_email|nscc-email|netconnect|trap
Lists the mappings for all hosts and host groups, and for the storage domains.	**list -a** *<array-name>* **mappings** [*<domain_name>* ,...]

Port and Network Configuration Commands

Task	Command
Display the IP address of the devices being monitored.	**sscs list** [**-n** *device-name*] [**-i** *IP-address*] **device**
Display all outward-facing Fibre Channel ports.	**sscs list -a** *array-name* **fcport**
Display status about one or more Fibre Channel ports.	**sscs list -a** *array-name* [**-c A**|**B**] **fcport** *FC-port-ID,...*
Display status about one or more SAS ports.	**sscs list -a** *array-name* [**-c A** | **B**] **sasport** *sas-port-ID,...*
Change the Fibre Channel preferred loop ID.	**sscs modify -a** *array-name* [**-c** A|B] **-l** *0..127*|N/A|Any **fcport** *FC-port-ID*

Array, Tray, Controller, and Disk Commands

Task	Command
Display all current arrays and the summary information for each array.	**sscs list array**
Display configuration information for the named array or for all arrays.	**sscs list array** [*array-name,...*]
Display information about all disks in an array or tray, or display detailed information about a specific disk.	**sscs list -a** *array-name* [**-t** *tray-ID*] **disk** [*disk-name,...*]
Specify the disk role, including the designation of hot-spare.	**sscs modify -a** *array-name* **-h** true|false **disk** *disk-name*
Set a disk to the failed state. This can create complications. Do not initiate this command without first consulting Sun Customer Service personnel.	**sscs fail -a** *array-name* [**-t** *tray-ID*] **disk** *disk-name*
Display information about all the trays in an array, or display detailed information about a specific tray.	**sscs list -a** *array-name* **tray** [*tray-ID,...*]
Change information about the array.	**modify** [**-N** *<storage-system-name>*] [**-d** *<description-text>*] [**-u** *<user-name>*] [**-q**] [**-U** *<user-name>*] [**-Q**] **storage-system** *<storage-system-name>*
Change the configuration of an array.	**sscs modify** [**-o solaris_dmp** | **solaris** | **sun_storedge** | **sun_storedge_nas_gateway** | **aix** | **hpux** | **linux** | **irix** | **ptx** | **netware_failover** | **netware_non_failover** | **win2k_clustered** | **win2k_non_clustered** | **winnt** | **winnt_non_clustered** | **win2k_non_clustered_dmp** | **win2k_clustered_dmp** | **dsp** | **aixavt** | **winnt_clustered**] [**-s** *0..100*] [**-S** *0..100*] [**-k disable** | *1..30*] [**-f** *0..60*] [**-h** *0..8*] [**-T** wwn | array_name] [**-N** *new-array-name*] [**-p** *password*] **array** *array-ID*
List the firmware versions of field-replaceable units in this device.	**sscs list** [**-a** *array-name*] [**-t** *fru-type*] [**-x** *unit-type*] **firmware**
Modifiy the firmware version of the field-replaceable unit of the device.	**sscs modify** [**-a** *array-name*] [**-f**] [**-o**] [**-t** *fru-type*] [**-x** *fru-type*] [**-p**] [**-c** *fru-type*] [**-w**] **firmware**
Attempt to move all volumes that are not currently running on the preferred controller to the preferred controller.	**sscs modify -R** [-T *wwn*|*array-name*] **array** *array-name*
Change the identification of one or more trays, enable or disable an alternate master tray, or unconfigure a controller tray.	**sscs modify -a** *array-name* **-N** *0..99* **tray** *tray-ID,...*
Add an array to the list of registered arrays.	**sscs add** [**-i** *IP-address*] [**-q**] **registeredarray**

Task	Command
Discover all arrays on the same subnet as the management host and register them.	**sscs add -d registeredarray**
List registered array information.	**sscs list -a** [*array-name,...*] **registeredarray**
Modify the locally stored password for a registered array.	**sscs modify -a** *array-name* **-q registeredarray**
Remove one or more arrays from the list of registered arrays.	**sscs remove -a** *array-name,...* **registeredarray**
Modify the fault management agent parameters	**modify** [**-a**] [**-d**] [**-r**] [**-i** <*integer*>] **agent**
Render an extensible markup language (XML) representation of the array. This outputs to standard output, and then you redirect it to a file or another mechanism.	**sscs export array** *array-name*
Apply an array configuration file to the specified array. This enables you to import the configuration file from one array to overwrite the configuration for this array.	**sscs import -x** *XML-location* [**-L** *list*] [-n] **array** *array-name*
Reset the specified array. **Caution:** Resetting the array destroys all user data, including volumes, hosts, initiators, and so forth.	**sscs reset array** *array-name*
List configuration information for the specified controller.	**sscs list -a** *array-name* **controller** [A|B]
Modify the Ethernet port of a controller using the specified IP parameters.	**sscs modify -a** *array-name* [**-e** 1|2] [**-d** off] [**-g** *gateway-address*] [**-i** *IP-address*] [**-m** *netMask*] **controller** A|B
Modify the IP parameters of a controller's Ethernet port using the Dynamic Host Control Protocol (DHCP).	**sscs modify -a** *array-name* [**-e** 1|2] **-d on controller** A|B
Verify the network connectivity between the array controller and the management software.	**sscs modify -a** *array-name* **-E controller** A|B
Reset the specified controller.	**sscs reset -a** *array-name* **controller** A|B
Unregister an array from the list of registered storage-systems.	**sscs unregister storage-system** *storage-system-name,...*
Modify the array.	sscs modify [-N <storage-system-name>] [-d <description-text>] [-u <user-name>] [-q] [-U <user-name>] [-Q] storage-system <storage-system-name>
Registers CAM software and all monitored arrays with Auto Service Request (ASR), which monitors the array system health and performance and automatically notifies the Sun Technical Support Center when critical events occur.	**sscs register sun-connection**

Task	Command
Unregister CAM software and all monitored arrays from Auto Service Request (ASR). Newly discovered arrays will not be registered with the saved registration options.	**sscs unregister sun-connection**
Places a field-replaceable unit of an array into a failed state.	**sscs service -a** <*array-name*> **-t** <*target-fru-name*> **fail**
Identifies the array whose locator LED will be turned on	**sscs service -a** <*array-name*> [**-t** <*target-fru-name*>] [**-o**] **locate**
Attempts to place the array controller or disk drive into the optimal state. This can create complications. Do not initiate this command without first consulting Sun Customer Service personnel.	**sscs service -a** Myarray **redistribute**
Attempts to place the array controller or disk drive into the optimal state. This can create complications. Do not initiate this command without first consulting Sun Customer Service personnel.	**sscs service -a** <*array-name*> **-t** <*target-fru-name*> [**-w**] **revive**

Storage Pool Commands

Task	Command
Display summary information about all current storage pools.	**sscs list -a** *array-name* **pool**
Display detailed information about specific storage pools.	**sscs list -a** *array-name* **pool** [*pool-name,...*]
Create a storage pool, using the specified profile.	**sscs create -a** *array-name* **-p** *profile-name* [**-d** *pool-description*] **pool** *pool-name*
Delete one or more storage pools, including all virtual disks and volumes in the storage pools.	**sscs delete -a** *array-name* **pool** *pool-name,...*
Change the description of a storage pool or its associated storage profile.	**sscs modify -a** *array-name* [**-N** *new-pool-name*] [**-d** *description*] [**-p** *new-profile-name*] **pool** *pool-name*

Storage Profile Commands

Task	Command
Display a list of all default storage profiles or customer-created profiles. You can also display detailed information for a specific profile.	**sscs list -a** *array-name* **profile** [*profile-name,...*]
Create a storage profile.	**sscs create -a** *array-name* **-r 0** | **1** | **3** | **5 -s 8K** | **16K** | **32K** | **64K** | **128K** | **256K** | **512K -h on** | **off -n variable** | *2..30* [**-k ANY** | **FC** | **SAS** | **SATA**] [**-H** *hot-spare* **yes** | **no**] [**-d** *profile-description*] **profile** *profile-name*
Delete one or more storage profiles, providing that no storage pools are currently using the profile.	**sscs delete -a** *array-name* **profile** *profile-name,...*
Change a storage profile, providing that no storage pools are currently using the profile.	**sscs modify -a** *array-name* [**-r 0** | **1** | **3** | **5 -s 8K** | **16K** | **32K** | **64K** | **128K** | **256K** | **512K**] [**-N** *new-profile-name*] [**-d** *profile-description*] [**-h on** | **off**] [**-n variable** | *2..30*] [**-H** *hot-spare* **yes** | **no**] [**-k ANY** | **FC** | **SAS** | **SATA**] **profile** *profile-name*
Import one or more profiles from a specified XML file. This enables you to import the configuration profile from one array to overwrite the configuration profile for this array.	**sscs import -a** *array-name* **-x** *XML-location* [**-f**] **-L profile** [*profile-name,...*]
Export one or more profiles into an XML representation. This outputs to standard output, and then you redirect it to a file or another mechanism.	**sscs export -a** *array-name* **profile** [*profile-name,...*]

Initiator Commands

Task	Command
Display a list of all initiators or detailed information for a specific initiator.	**sscs list -a** *array-name* [**-T** WWN|initiator_name] **initiator** [*initiator-ID,...*]
Create an initiator.	**sscs create -a** *array-name* **-w** *initiator-WWN* [**-h** *host-name*] [**-o** *OS-type-name* **solaris_dmp** | **solaris** | **sun_storedge** | **sun_storedge_nas_gateway** | **aix** | **hpux** | **linux** | **irix** | **ptx** | **netware_failover** | **netware_non_failover** | **win2k_clustered** | **win2k_non_clustered** | **winnt** | **winnt_non_clustered** | **win2k_non_clustered_dmp** | **win2k_clustered_dmp** | **dsp** | **aixavt** | **winnt_clustered initiator** *initiator-name*
Map an initiator to one or more volumes or snapshots. Any previous mappings for the given volumes or snapshots are removed.	**sscs map -a <array-name> [-P readwrite | readonly] [-v <volume-name,...> [-s <snapshot-volume-name,...>] [-l <0..255>] initiator <initiator-name,...>**

Task	Command
Unmap an initiator from a volume or snapshot.	`sscs unmap -a <array-name> [-s <snapshot-volume-name,...> ] [-v <volume-name,...> ] initiator <initiator-name,...>`
Delete one or more unmapped initiators.	**sscs delete -a** *array-name* [**-T** WWN|initiator_name] **initiator** *initiator-ID,...*
Change an initiator. **Note:** You can modify the World Wide Name (WWN) only when the initiator is offline.	**sscs modify -a** *array-name* [**-h** *host-name*] [**-N** *initiator-name* [**-T** *wwn* | *initiator_name* [**-o solaris_dmp** | **solaris** | **sun_storedge** | **sun_storedge_nas_gateway** | **aix** | **hpux** | **linux** | **irix** | **ptx** | **netware_failover** | **netware_non_failover** | **win2k_clustered** | **win2k_non_clustered** | **winnt** | **winnt_non_clustered** | **win2k_non_clustered_dmp** | **win2k_clustered_dmp** | **dsp** | **aixavt** | **winnt_clustered**] **initiator** *initiator-ID*

Virtual Disk Commands

Task	Command
Display summary information about all current virtual disks or detailed information about a specific virtual disk.	**sscs list -a** *array-name* **vdisk** [*virtual-disk-name,...*]
Create a volume using a virtual disk.	**sscs create -a** *array-name* **-p** *pool-name* **-s** *size* [**-v** *virtual-disk-name*] [**-n** *2..30*] [**-d** *disk-name,...*] **volume** *volume-name*
Delete one or more virtual disks.	**sscs delete -a** *<array-name>* **vdisk** *<vdisk-name,...>*
Change the number of supplied disks for a virtual disk, and defragment the virtual disk.	**sscs modify -a** *array-name* [**-d** *disk-name,...*] [**-f**] **vdisk** *virtual-disk-name*

Host and Host Group Commands

Task	Command
Add hosts to a host group.	**sscs add -a** *array-name* **-h** *host-name,...* **hostgroup** *host-group-name*
Create a storage host. You can create up to 256 hosts per array.	**sscs create -a** *array-name* [**-g** *host-group-name*] **host** *host-name*
Create a storage host group. You can create up to 256 host groups per array.	**sscs create -a** *array-name* **hostgroup** *host-group-name*
Delete one or more hosts.	**sscs delete -a** *array-name* **host** *host-name,...*
Delete one or more host groups.	**sscs delete -a** *array-name* **hostgroup** *host-group-name,...*

Task	Command
List the host names and details for an individual host.	**sscs list -a** *array-name* **host** [*host-name,...*]
List the host group name and hosts for an individual host group.	**sscs list -a** *array-name* **hostgroup** [*host-group-name,...*]
Modify a host name.	**sscs modify -a** *array-name* [**-N** *host-name*] [**-g** *host-group-name*] **host** *host-name*
Modify a host group name.	**sscs modify -a** *array-name* **-N** *host-group-name* **hostgroup** *host-group-name*
Remove one or more hosts from a host group.	**sscs remove -a** *array-name* **-h** *host-name,...* **hostgroup** *host-group-name*
Map one or more volumes and snapshots to a host. Any previous mappings for the given volumes and snapshots are removed.	**sscs map -a** *array-name* [**-v** *volume-name,...*] [**-s** *snapshot-volume-name,...*] [**-l** *0..255*] **host** *host-name*
Map one or more volumes to a host group. Any previous mappings for the given volumes and snapshots are removed.	**sscs map -a** *array-name* **-v** *volume-name,...*|**-s** *snapshot-volume-name,...* [**-l** *0..255*] **hostgroup** *host-group-name*
Unmap one or more snapshots or volumes from a host.	**sscs unmap -a** *array-name* [**-s** *snapshot-name,...*] [**-v** *volume-name,...*] **host** *host-name*
Unmap one or more snapshots or volumes from a host group.	**sscs unmap -a** *array-name* [**-s** *snapshot-name,...*] **-v** *volume-name,...* **hostgroup** *host-group-name*

Volume Commands

Task	Command
Display summary information about all current volumes or detailed information about a specific volume.	**sscs list -a** *array-name* [**-p** *pool-name*] [**-v** *virtual-disk-name*] **volume** [*volume-name,...*]
Create a volume.	**sscs create -a** *array-name* **-p** *pool-name* **-s** tb|gb|mb|blk [**-v** *virtual-disk-name*] [**-n** *2..30*] [**-d** *disk-name,...*] **volume** *volume-name*
List volume information.	**sscs list -a** *array-name* [**-p** *pool-name*] [**-v** *virtual-disk-name*] **volume** [*volume-name,...*]
Create a volume copy.	**sscs create -a** *array-name* **-s** *source-volume-name* **-t** *target-volume-name* [**-p** lowest|low|medium|high|highest] **volume-copy**
Delete one or more unmapped volumes.	**sscs delete -a** *array-name* **volume** *volume-name,...*

Task	Command
List volume copy information. If neither the source volume nor the target volume is specified, a summary of all volume copies is listed. If the source volume or the target volume is specified, a detailed listing of each is generated.	**sscs list -a** *array-name* [**-s** *source-volume-name,...*] [**-t** *target-volume-name,...*] **volume-copy**
Delete a volume copy.	**sscs delete -a** *array-name* **-s** *source-volume-name* **-t** *target-volume-name* **volume-copy**
Change a volume's attributes.	**sscs modify -a** *array-name* **-p** *pool-name* [**-e** *extend-size*] [**-N** *new-volume-name*] [**-c** A|B] [**-m** *modification-priority* lowest|low|medium|high|highest] [**-W** enable|disable] [**-M** enable|disable] [**-b** enable|disable] [**-k** enable|disable] [**-r** enable|disable] **volume** *volume-name*
Change a volume copy's attributes.	**sscs modify -a** *array-name* **-s** [*source-volume-name*] **-t** [*target-volume-name*] [**-p** lowest|low|medium|high|highest] [**-r** enable|disable] [**-R**] [**-S**] **volume-copy**
Map one or more volumes to a host or host group.	**sscs map -a** *array-name* [**-h** *host-name*] [**-g** *host-group*] [**-l** *0..255*] **volume** *volume-name,...*
Unmap one or more volumes from a host or host group.	**sscs unmap -a** *array-name* [**-h** *host-name*| **-g** *host-group-name*] **volume** *volume-name,...*

Snapshot Commands

Task	Command
Create a snapshot for a volume.	**sscs create -a** *array-name* **-V** *volume-name* [**-f failbasewrite** | **failsnapshot**] [**-v** *virtual-disk-name*] [**-m** *volume-name*] [**-w** *0..100*] [**-n** *2..30*] [**-d** *disk-name,...*] [**-r 0** | **1** | **3** | **5**] [**-k ANY** | **FC** | **SAS** | **SATA**] [**-Z** *snapshot-reserve-size*] [**-C** *snapshot-count*] [**-L low** | **verylittle** | **little** | **average** | **high** | **full**] [**-P** *snapshot-pool*] [**-D** *description*] **snapshot** *snapshot-name* sscs snapshoot -a <array-name> -v <volume-name> [-C <integer>] [-L low | verylittle | little | average | high | full] [-Z <integer> TB | GB | MB | KB | Bytes | BLK | BV] [-f volume | snapshot] [-w | --warning-threshold <0..100>] [-P|--snapshot-pool <reserve-volume-name>] [-m <reserve-volume-name>] volume <snapshot-name>

Task	Command
Modifies properties of a snapshot.	**sscs modify -a** *array-name* [**-N** *snapshot-name*] [**-f failbasewrite**|**failsnapshot**] [**-w** *0..100*] [**-D** *profile-description]* **snapshot** *snapshot-name*
Extend the snapshot reserve volume size by a specified amount.	**sscs modify** -a *array-name* -e *extend-size* snapshot *snapshot-name*
Disable the snapshot.	**sscs modify -a** *array-name* **-S snapshot** *snapshot-name*
Resnap the snapshot.	**sscs modify -a** *array-name* **-R snapshot** *snapshot-name* sscs snapshoot -a|--array <array-name> -R|--resnap volume <string>
Modify the volume properties of the snapshot reserve volume.	**sscs modify -a** *array-name* [**-m** *volume-name*] [**-c** A|B] [**-W** enable|disable] [**-M** enable|disable] [**-b** enable|disable] [**-k** enable|disable] [**-r** enable|disable] **snapshot** *snapshot-name*
Delete one or more snapshots.	**sscs delete -a** *array-name* **snapshot** *snapshot-name,...*
List the specified snapshot or snapshots associated with this array.	**sscs list -a** *array-name* **snapshot** [*snapshot-name,...*]
Map one or more snapshots to a host or host group. If no host or host group is specified, the snapshot or snapshots are mapped into the default partition.	**sscs map -a** *array-name* [**-h** *host-name*|**-g** *host-group-name*] [**-l** *0..255*] **snapshot** *snapshot-name,...*
Unmap a host or host group from one or more snapshots.	**sscs unmap -a** *array-name* [**-h** *host-name*] [**-g** *host-group-name*] **snapshot** [*snapshot-name,...*]
Note: The following two subcommands provide cross-compatibility with scripts that are written for the Sun StorageTek 6920 system. The preferred snapshot subcommands are Create Snapshot and Modify Snapshot.	
Create a snapshot for a volume.	**sscs snapshot -X** *storage-device-name* **-v** *volume-name* [**-C 1**] [**-L** low|verylittle|little|average|high|full] [**-f** failsnapshot|failbasewrite] [**-m** *reserve-volume-name*] **volume** *snapshot-volume-name*
Resnap a volume.	**sscs snapshot -X** *storage-device-name* **-R volume** *snapshot-volume-name*

Remote Replication Commands

Task	Command
Create a storage replication set linking the local volume with the remote volume through a peer World Wide Name.	**sscs create** e **-a** *array-name* **-l** *volume-name* **-w peer-WWN -o** *volume-name* **-m** sync|async [**-G** yes|no] [**-R** lowest|low|medium|high|highest] [**-s** enable|disable] **repset**
Create a replication set linking the local volume with the remote volume through a remote array name.	**sscs create -a** *array-name* **-l** *volume-name* **-A** *remote-array-name* **-o** *volume-name* **-m** sync|async [**-G** yes|no] [**-R** lowest|low|medium|high|highest] [**-s** enable|disable] **repset**
Delete one or more replication sets.	**sscs delete -a** *array-name* **repset** *repset-name,...*
List replication set information.	**sscs list -a** *array-name* **repset** [*repset-name,...*]
Modify the mode, consistency group, or replication priority of the specified replication set.	**sscs modify -a** *array-name* **-A -r 1** | **3** | **5** | **-n** *2..30* [**-k ANY** | **FC** | **SAS** | **SATA**] **license ReplicationSet**
Modify the role of the local volume on the specified array.	**sscs modify -a** *array-name* [**-r** primary|secondary] [**-f**] **repset** *repset-name*
Suspend replication on the specified array.	**sscs modify -a** *array-name* **-c repset** *repset-name*
Resume replication on the specified array.	**sscs modify -a** *array-name* **-z repset** *repset-name*
Test whether the primary volume on the specified array is communicating correctly with its replica (primary or secondary).	**sscs modify -a** *array-name* **-E repset** *repset-name*

License Commands<target-fru-name>

Task	Command
Adds a license to the specified array. Specify either the -l option alone, or the -v, -c, and -d options together.	**sscs add -a** *array-name* [**-l** license-location | **-v** version-number **-c** capability-number **-d** digest-key] **license**
Activate replication set licenses on the specified array using the designated virtual disk for replication set repository volumes.	**sscs modify -a** *array-name* **-A** [**-v** *virtual-disk-name*] **license ReplicationSet**
Activate replication set licenses on the specified array, creating a new virtual disk with the designated RAID level and disk type for the replication set repository volumes.	**sscs modify -a** *array-name* **-A -r** 1|3|5 **-n** *2..30* **-k** ANY|FC|SAS|SATA **license ReplicationSet**
Activate replication set licenses on the specified array, creating a new virtual disk with the designated RAID level and names of disks to be used for the replication set repository volumes.	**sscs modify -a** *array-name* **-A -r** 1|3|5 **-d** *disk-name,...* **license ReplicationSet**

Task	Command
Deactivate replication set licenses on the specified array, and delete the replication set repository volumes.	**sscs modify -a** *array-name* **-I license ReplicationSet**
Remove a license from the specified array.	**sscs remove -a** *array-name* **license** *license-name*

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