



Sun StorEdge™ 6920 System

sscs(1M) CLI Quick Reference Card

This document lists the `sscs(1M)` commands you can use to administer the Sun StorEdge™ 6920 system from the command-line interface (CLI).

Using the `sscs` Command

Task	Steps
Invoke the <code>sscs</code> command.	To manage the Sun StorEdge 6920 system, use the <code>/opt/se6x20/cli/bin/sscs</code> command. From a terminal window, type the <code>sscs</code> command with a subcommand, and any required (and optional) parameters. <i>Note: The <code>sscs</code> command has an inactivity timer. The session terminates if you do not issue any <code>sscs</code> commands for 30 minutes. You must log in again after the timeout to issue a command.</i>
Display a brief list of all subcommands.	Type one of the following commands: <code>sscs [-H --help]</code> <i>or</i> <code>sscs -?</code>
Display information about a specific subcommand.	Type the following command: <code>sscs subcommand [-H --help]</code> For example, to show information about the <code>list</code> subcommand, type <code>sscs list -H</code> To show information specifically about the <code>list array</code> command, type <code>sscs list -H array</code>

Subcommand Syntax and Usage Conventions

Convention	Description
Bold	Text in boldface should be typed exactly as shown.
<i>Italic</i>	Text in italics is variable and should be replaced with the name or value used at your site. Variables can be separated by a comma or space. <i>Note: Spaces alone do not work in lists. The following examples show the correct use of commas and spaces in lists:</i> <code>sscs list volume TestVOL, fvm13311</code> <code>sscs list volume TestVol, fvm13311</code>
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 <code>sscs</code> 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

Description	Command
<p>Log in to the system's Storage Service Processor.</p> <p>When you log in, you must specify the type of user you are logging in as and the host name of the Storage Service Processor. The following list describes the short and long name command options for the <code>login</code> command:</p> <p>-u, --username Specifies the user name with which to log in. Valid user names are admin, storage, and guest.</p> <p>-h, --hostname Specifies the host name of the Storage Service Processor.</p> <p>-f, --force Forces a login to the Storage Service Processor if another storage user with the same user name is already logged in. The other user is logged out.</p> <p>-t, --http Logs the user in using an HTTP connection.</p>	<code>sscs login -u admin storage guest -h hostname [-f] [-t]</code>
Change the password.	<code>sscs modify password admin storage guest</code>
<p>Log off the Storage Service Processor.</p> <p>All users logged in at the same host are logged off by this command, regardless of their <code>sscs</code> role.</p>	<code>sscs logout</code>
Display the version of the <code>sscs</code> software running on the Storage Service Processor.	<code>sscs -v</code>
List the software revision updates to be installed and the undo list of the most recent updates.	<code>sscs list [-u] revision</code>
Uninstall a revision.	<code>sscs remove revision</code>
Display site information such as the system serial number and contact information.	<code>sscs list site</code>
Display the system ID and description.	<code>sscs list system</code>
Display the current date and time in hours, minutes, and seconds.	<code>sscs list date</code>
Change the date on the Storage Service Processor using the Solaris™ <code>date(1)</code> command utility.	<code>sscs modify -G true false date [mmdd] HHMM/mmddHHMM [cc] [yy] [.SS]</code>
Display the system's current time zone.	<code>sscs list timezone</code>
Change the system's time zone, using any of the time zones supported by the Java™ programming environment.	<code>sscs modify timezone time-zone</code>
List all jobs, only completed jobs, or only current jobs.	<code>sscs list [-C] [-o] jobs [job-ID,...]</code>
Cancel a current job or delete a historical job.	<code>sscs modify [-k job-ID,...] [-d job-ID,...] jobs</code>
List log messages, for a range of time or for the most recent ones.	<code>sscs list [[-s {[mmdd] HHMM/mmddHHMM [cc]yy} [.SS]}-f {[mmdd]HHMM/mmddHHMM [cc]yy} [.SS]}] [-t number-of-messages] log</code>
Display the power status of the system.	<code>sscs list power</code>
Change the power mode to a partial shutdown, full shutdown, or full power.	<code>sscs modify power down off on</code>
Change the system's inventory of modules.	<code>sscs modify -m model [-c validate-only] [-S serial-number] [-p string [-t save-array-password] [-T timeout-value] [-d string] inventory</code>
Set or change the country code.	<code>sscs modify -c country-name countrycode</code>
Rescan the system to detect additional external storage. (Minimum version 3.0.0.)	<code>sscs rescan system</code>

Alarm Commands

Description	Command
List the devices that are being monitored, or list specific information about one device.	<code>sscs list [-n device-name] [-i IP-address] device</code>
Display a list of alarms with date and severity, or display specific information about one alarm.	<code>sscs list [-s 1..3] [-f device-type] [-a] alarm alarm-ID...</code>
Delete an alarm.	<code>sscs remove [-f device-type] [-s 1..3] [-A] alarm</code>
Display the current notifications for alarms.	<code>sscs list notification</code>
Enable remote notification or add a new notification.	<code>sscs add [-e email-address,...] [-i IP-address,...] [-t 1 2 3 4 5] [-l warning error down] notification local_email nsc_email ssrr trap sae</code>
Remove a notification, from a specific source to a specific address, or of a specific type.	<code>sscs remove [-e email-address,...] [-i IP-address,...] notification nsc_email ssrr trap sae</code>

Port and Network Configuration Commands

Description	Command
Display network configuration information, such as IP address and domain name.	<code>sscs list net</code>
Change the system's network parameters, such as enabling the Data Host Control Protocol (DHCP).	<code>sscs modify [-d on off] [-g IP-address] [-n IP-address] [-i IP-address] [-m netmask] [-D domain-name] net</code>
Display information about the Network Time Protocol (NTP) server.	<code>sscs list ntp</code>
Enable, change, or disable the Network Time Protocol (NTP) server.	<code>sscs modify [-e] [-d] ntp IP-address</code>
Display the IP address of the devices being monitored.	<code>sscs list [-n device-name] [-i IP-address] device</code>
Display the device name and Media Access Control (MAC) address for each device.	<code>sscs list ethers</code>
Add the Ethernet address of a device to the boot table for Reverse Address Resolution Protocol (RARP) initialization.	<code>sscs add -n device-name -e MAC-address ethers</code>
Delete an Ethernet address from the RARP device boot table.	<code>sscs remove -n device-name ethers</code>
Display all outward-facing Fibre Channel ports.	<code>sscs list fcport</code>
Display status and event information about a specific Fibre Channel port.	<code>sscs list fcport FC-port-name</code>
Change the speed or name of a Fibre Channel port.	<code>sscs modify -s 1GB 2GB auto fcport FC-port-name</code>
Display the filtering information for all firewall services or for a specific service.	<code>sscs list firewall_service [service,...]</code>
Change the attributes of a firewall service. <i>Note: To display valid service names, use the <code>sscs list firewall_service [service,...] command</code>.</i>	<code>sscs modify [-e -d] firewall_service [service,...]</code>

External Storage Commands

Description	Command
Generate details for each disk specified by the external-storage operand. If no disk is specified, generate a summary of all external storage disks.	<code>sscs list externalstorage [external-storage[,...]]</code>
Initialize an external storage disk as a virtual disk and add it to a storage pool. (Minimum version 3.0.0.)	<code>sscs create -e -p pool-name [-S storage-domain-name] vdisk</code>
Create a virtualized legacy volume from an external storage disk. (Minimum version 3.0.0.)	<code>sscs create -e external-storage -p pool-name [-d volume-description] [-S storage-domain-name] volume volume-name</code>

Array, Tray, and Disk Commands

Description	Command
Display all current arrays and the summary information for each array.	<code>sscs list array</code>
Display configuration information for the named array.	<code>sscs list array [array-name,...]</code>
Display an array's current power status.	<code>sscs list -a array-name arraypower</code>
Display information about all disks in an array or tray, or display detailed information about a specific disk.	<code>sscs list -a array-name [-t tray-ID] disk [disk-name,...]</code>
Display information about all the trays in an array, or display detailed information about a specific tray.	<code>sscs list -a array-name tray [tray-ID,...]</code>
Change the configuration of an array.	<code>sscs modify [-c [auto writebehind writethrough off]] [-d text] [-h hot-spare-drive-count] [-R [high medium low]] [-f [explicit implicit none]] [-k enabled disabled] array array-name</code>
Shut down, restart, or restore the default values of an array.	<code>sscs modify -a array-name arraypower off restart restore</code>
Change the identification of a tray, enable or disable an alternate master tray, or unconfigure a controller tray.	<code>sscs modify -a array-name [-u -d -e] tray tray-ID,...</code>

Storage Pool Commands

Description	Command
Display summary information about all current storage pools.	<code>sscs list pool</code>
Display detailed information about specific storage pools.	<code>sscs list [-S storage-domain-name] pool [pool-name,...]</code>
Create a storage pool, using either the specified profile or values for all options. <i>Note: If a storage domain name is not provided, the system assigns the DEFAULT storage domain name.</i>	<code>sscs create -p profile-name [-S storage-domain-name] [-d pool-description] pool pool-name</code>
Delete a storage pool, including all virtual disks and volumes in the storage pool. <i>Note: If a storage domain name is not provided, the system assigns the DEFAULT storage domain name.</i>	<code>sscs delete [-S storage-domain-name] pool pool-name,...</code>
Change the description of a storage pool or its associated storage profile.	<code>sscs modify [-S storage-domain-name] [-p new-profile-name] [-d description] pool pool-description</code>

Storage Domain Commands

Description	Command
Display information about a specific storage domain. (If you do not provide a storage domain name, the system provides a list of all storage domains on the system.)	<code>sscs list sdomain storage-domain-name,...</code>
Create a storage domain.	<code>sscs create [-d storage-domain-description] sdomain storage-domain-name</code>
Delete one or more storage domains, including the storage pools defined for them.	<code>sscs delete sdomain storage-domain-name,...</code>
Change the description of a storage domain.	<code>sscs modify -d description sdomain storage-domain-name</code>

Storage Profile Commands

Description	Command
Display a list of all the factory storage profiles or customer-created profiles. You can also display detailed information for a specific profile.	<code>sscs list profile profile-name,...</code>
Create a storage profile.	<code>sscs create -r 0 1 5 -t iops bandwidth capacity bm_iops bm_bandwidth bm_capacity -s 4K 8K 16K 32K 64K -h on off -n variable 2 3 ... 14 -v stripe concat -D yes no [-p 128K 512K 1M 2M 4M 8M 16M] [-d profile-description] profile profile-name</code>
Delete one or more storage profiles, providing that no storage pools are currently using the profile.	<code>sscs delete profile profile-name,...</code>
Change a storage profile, providing that no storage pools are currently using the profile.	<code>sscs modify [-d profile-description] [-N profile-name] [-r 0 1 5] [-t iops bandwidth capacity bm_iops bm_bandwidth bm_capacity] [-s 4K 8K 16K 32K 64K] [-h [on off]] [-n variable 2 3 ... 14] [-v stripe concat] [-p 128K 512K 1M 2M 4M 8M 16M] [-D yes no] profile profile-name</code>

Initiator Commands

Description	Command
Display summary information about all current initiators.	<code>sscs list initiator</code>
Display a list of all initiators or detailed information for a specific initiator.	<code>sscs list [-S storage-domain-name] [-T name-type [WWN initiator-name] initiator [initiator-name,...</code>
Create an initiator.	<code>sscs create -w initiator-WWN [-o standard hpux] [-S storage-domain-name] [-d initiator-description]initiator initiator-name</code>
Delete one or more unmapped initiators.	<code>sscs delete [-S storage-domain-name] initiator initiator-name,...</code>
Change an initiator. <i>Note: You can modify the World Wide Name (WWN) only when the initiator is offline.</i>	<code>sscs modify [-d description] [-o standard hpux] [-N new-initiator-name] [-S storage-domain-name] [-w initiator-WWN] [-T WWN initiator-name] initiator initiator-ID</code>

Virtual Disk Commands

Description	Command
Display summary information about all current virtual disks or detailed information about a specific virtual disk.	<code>sscs list [-p pool-name] [-S storage-domain-name] [--unassigned-only] vdisk [virtual-disk-ID,...</code>
Create a virtual disk and add it to a storage pool.	<code>sscs create -p pool-name -t tray-ID -a array-name [-S storage-domain-name] [-d number-of-disks] vdisk</code>
Delete a virtual disk or multiple virtual disks, providing they are not in use and are assigned to the same storage pool.	<code>sscs delete -p pool-name [-S storage-domain-name] vdisk virtual-disk-ID,...</code>
Change a virtual disk's storage pool, providing that no volumes are allocated.	<code>sscs modify -P new-pool-name [-p pool-name] vdisk virtual-disk-ID</code>

Volume Commands

Description	Command
Display summary information about all current volumes or detailed information about a specific volume.	sscs list [-p <i>pool-name</i>] [-S <i>storage-domain-name</i>] volume [<i>volume-name</i> ,...]
Create a volume without snapshot reserve space.	sscs create -p <i>pool-name</i> -s <i>size</i> TB GB MB B [-t] [-d <i>volume-description</i>] [-S <i>storage-domain-name</i>] volume <i>volume-name</i>
Create a volume with snapshot reserve space. (Minimum version 3.0.0.)	sscs create -p <i>pool-name</i> -s <i>size</i> TB GB MB B -C 1...32 -L low verylittle little average high full [-P <i>pool-name</i>] [-f <i>volume</i> snapshot] [-t] [-d <i>volume-description</i>] [-S <i>storage-domain-name</i>] volume <i>volume-name</i>
Delete one or more unmapped volumes.	sscs delete [-S <i>storage-domain-name</i>] volume <i>volume-name</i> ,...
Change a volume's attributes. (Minimum version 3.0.0.)	sscs modify [-N <i>new-volume-name</i>] [-f <i>volume</i> snapshot] [-p <i>pool-name</i>] [-e <i>extend-size</i> MB GB TB B] [-d <i>volume-description</i>] [-S <i>storage-domain-name</i>] volume <i>volume-name</i>
Configure the snapshot reserve space for existing volume <i>volume-name</i> that does not have snapshot reserve space configured (including virtualized legacy volumes). (Minimum version 3.0.0.)	sscs modify -P pool -C 1...32 -L low verylittle little average high full [-f <i>volume</i> snapshot] [-S <i>storage-domain-name</i>] volume <i>volume-name</i>
Expand the snapshot reserve space for a volume (including mirrored volumes and virtualized legacy volumes) that already has snapshot reserve space configured. (Minimum version 3.0.0.)	sscs modify -C 1...32 -L low verylittle little average high full [-S <i>storage-domain-name</i>] volume <i>volume-name</i>
Map a volume to an initiator, or change an existing map.	sscs map -v <i>volume-name</i> ,... -P readonly readwrite [-S <i>storage-domain-name</i>] [-l 0..255] initiator <i>initiator-name</i>
Map an initiator to a volume, or change an existing map.	sscs map initiator <i>initiator-name</i> -P readonly readwrite [-S <i>storage-domain-name</i>] [-l 0..255] volume <i>volume-name</i> ,...
Unmap an initiator.	sscs unmap [-S <i>storage-domain-name</i>] -v <i>volume-name</i> ,... initiator <i>initiator-name</i>
Unmap a volume.	sscs unmap [-S <i>storage-domain-name</i>] -i <i>initiator-name</i> ... volume <i>volume-name</i>
Rollback snapshot <i>snapshot-volume-name</i> . (Minimum version 3.0.0.)	sscs snapshot -b [-S <i>storage-domain-name</i>] volume <i>snapshot-volume-name</i>
Cancel rollback of snapshot <i>snapshot-volume-name</i> . Warning: This operation should be used only as a last resort because it causes the parent volume to be lost. (Minimum version 3.0.0.)	sscs snapshot -c [-S <i>storage-domain-name</i>] volume <i>snapshot-volume-name</i>

Volume Commands *(continued)*

Description	Command
Take a snapshot of volume (or virtualized legacy volume) <i>source-volume-name</i> that does not have snapshot reserve space configured. (Minimum version 3.0.0.)	<pre>sscs snapshot -v source-volume-name -P pool -C 1...32 -L low verylittle little average high full [-f volume snapshot] [-d volume-description] [-S storage-domain-name] volume new-snapshot-name</pre>
Expand the snapshot reserve space and take a snapshot of volume <i>source-volume-name</i> that already has snapshot reserve space configured (includes mirrored volumes and virtualized legacy volumes). (Minimum version 3.0.0.)	<pre>sscs snapshot -v source-volume-name -C 1...32 -L low verylittle little average high full [-f volume snapshot] [-d volume-description] [-S storage-domain-name] volume new-snapshot-name</pre>
Create a snapshot for volume <i>source-volume-name</i> .	<pre>sscs snapshot -v source-volume-name [-d volume-description] [-S storage-domain-name] volume new-snapshot-name</pre>
Resnap volume <i>snapshot-volume-name</i> . (Minimum version 3.0.0.)	<pre>sscs snapshot -R [-S storage-domain-name] volume snapshot-volume-name</pre>
Remove all snapshots for volume <i>source-volume-name</i> . (Minimum version 3.0.0.)	<pre>sscs snapshot -r [-S storage-domain-name] volume source-volume-name</pre>

Remote Replication Commands

Description	Command
Enable or disable replication for a port. (Minimum version 3.0.0.)	<pre>sscs modify [-r enable disable] fcport fcport-name</pre>
List either a summary of all gigabit Ethernet ports or the details of the ports specified by <i>etherport-ID</i> [,...]. (Minimum version 3.0.0.)	<pre>sscs list etherport [etherport-ID [...]]</pre>
Enable or disable replication for gigabit Ethernet port <i>etherport-ID</i> . (Minimum version 3.0.0.)	<pre>sscs modify -r enable disable [-g gateway] [-m mask] [-l local] etherport etherport-ID</pre>
Add remote address <i>remote-address</i> to gigabit Ethernet port <i>etherport-ID</i> . (Minimum version 3.0.0.)	<pre>sscs add -t remote-address [-d port-description] etherport etherport-ID</pre>
Remove remote address(es) from a gigabit Ethernet port. (Minimum version 3.0.0.)	<pre>sscs remove -t remote-address[...] etherport etherport-ID</pre>

Remote Replication Commands *(continued)*

Description	Command
Create a replication set outside of a replication consistency group. (Minimum version 3.0.0.)	<pre>sscs create -l <i>local-volume</i> -w <i>peer-wwn</i> -o <i>remote-volume</i> -b <i>bitmap-pool</i> -r <i>primary secondary</i> -m <i>sync async</i> [-R <i>low medium high</i>] [-s <i>enable disable</i>] [-x <i>enable disable</i>] [-p <i>enable disable</i>] [-q <i>pool</i>] [-Q <i>size TB GB MB B</i>] [-u <i>block suspend</i>] [-k <i>blocks-count-threshold</i>] [-t <i>time-threshold</i>] [-S <i>storage-domain-name</i>] repset</pre>
Create a replication set in a new replication consistency group. (Minimum version 3.0.0.)	<pre>sscs create -G <i>new-group-name</i> -l <i>local-volume</i> -w <i>peer-wwn</i> -o <i>remote-volume</i> -b <i>bitmap-pool</i> -r <i>primary secondary</i> -m <i>sync async</i> [-R <i>low medium high</i>] [-d <i>group-description</i>] [-s <i>enable disable</i>] [-x <i>enable disable</i>] [-p <i>enable disable</i>] [-q <i>pool</i>] [-Q <i>size TB GB MB B</i>] [-u <i>block suspend</i>] [-k <i>blocks-count-threshold</i>] [-t <i>time-threshold</i>] [-S <i>storage-domain-name</i>] repset</pre>
Create a replication set in an existing replication consistency group. (Minimum version 3.0.0.)	<pre>sscs create -g <i>constgroup-name</i> -l <i>local-volume</i> -o <i>remote-volume</i> -b <i>bitmap-pool</i> [-S <i>storage-domain-name</i>] repset</pre>
List details for each replication set specified by <i>repset-name,...</i> . If the <i>repset</i> operand is left blank, generate a summary of all replication sets. (Minimum version 3.0.0.)	<pre>sscs list [-S <i>storage-domain-name</i>] repset [<i>repset-name,...</i>]</pre>
Modify the attributes of replication set <i>repset-name</i> . If the replication set is a member of a replication consistency group, then modify all of the replication sets in the group accordingly. (Minimum version 3.0.0.)	<pre>sscs modify [-m <i>sync async</i>] [-r <i>primary secondary</i>] [-R <i>low medium high</i>] [-s <i>enable disable</i>] [-x <i>enable disable</i>] [-p <i>enable disable</i>] [-q <i>pool</i>] [-Q <i>size TB GB MB B</i>] [-u <i>block suspend</i>] [-k <i>blocks-count-threshold</i>] [-t <i>time-threshold</i>] [-S <i>storage-domain-name</i>] repset <i>repset-name</i></pre>
Place replication set <i>repset-name</i> in suspend mode. (Minimum version 3.0.0.)	<pre>sscs modify -c [-T] [-S <i>storage-domain-name</i>] repset <i>repset-name</i></pre>

Remote Replication Commands *(continued)*

Description	Command
Resume replicating a replication set that has been suspended, or start replicating a replication set. (Minimum version 3.0.0.)	<pre>sscs modify -z [-F] [-S storage-domain-name] repset repset-name</pre>
Delete replication set <i>repset-name</i> . (Minimum version 3.0.0.)	<pre>delete [-S storage-domain-name] repset repset-name</pre>
List details for each replication set specified by <i>repset-name</i> [,...]. If the <i>repset</i> operand is left blank, generate a summary of all replication sets. (Minimum version 3.0.0.)	<pre>sscs list [-S storage-domain-name] repset [repset-name[,...]]</pre>
List the details for each replication consistency group specified by <i>constgroup-name</i> . If no group is specified, list a summary of all replication consistency groups for a storage domain. (Minimum version 3.0.0.)	<pre>sscs list [-S storage-domain-name] constgroup [constgroup-name[,...]]</pre>
Modify the attributes of a specified replication consistency group. All of the replication sets in the group are modified accordingly. (Minimum version 3.0.0.)	<pre>sscs modify [-N new-name] [-d description] [-m sync async] [-r primary secondary] [-R low medium high] [-s enable disable] [-x enable disable] [-p enable disable] [-q pool] [-Q size TB GB MB B] [-u block scoreboard] [-k blocks-count-threshold] [-t time-threshold] [-S storage-domain-name] constgroup constgroup-name</pre>
Place replication consistency group <i>constgroup-name</i> in suspend mode. All of the replication sets in the group are set to suspend. (Minimum version 3.0.0.)	<pre>sscs modify -c [-T] [-S storage-domain-name] constgroup constgroup-name</pre>
Resume or start replicating a replication consistency group. All of the replication sets in the group are set to replicating. (Minimum version 3.0.0.)	<pre>sscs modify -z [-F] [-S storage-domain-name] constgroup constgroup-name</pre>
Delete replication consistency group <i>constgroup-name</i> . (Minimum version 3.0.0.)	<pre>sscs delete [-S storage-domain-name] constgroup constgroup-name</pre>
Add replication set <i>repset-name</i> to replication consistency group <i>constgroup-name</i> . (Minimum version 3.0.0.)	<pre>sscs add -r repset-name [-S storage-domain-name] constgroup constgroup-name</pre>
Remove replication set <i>repset-name</i> from replication consistency group <i>constgroup-name</i> . (Minimum version 3.0.0.)	<pre>sscs remove -r repset-name [-S storage-domain-name] constgroup constgroup-name</pre>

Mirror Volume Commands

Description	Command
Create a new mirrored volume with up to four components. (Minimum version 3.0.0.)	<pre>sscs create -m <i>pool1, pool2, [pool3], [pool4]</i> -s <i>size</i> TB GB MB B [-i <i>required optional</i>] [-d <i>volume-description</i>] [-g <i>pool-name</i>] [-v <i>low medium high</i>] [-S <i>storage-domain-name</i>] volume <i>mirrored-volume-name</i></pre>
Create a new mirrored volume with up to four components, and configure snapshot reserve space. (Minimum version 3.0.0.)	<pre>sscs create -m <i>pool1, pool2, [pool3], [pool4]</i> -s <i>size</i> TB GB MB B -P <i>pool-name</i> -C 1...32 -L <i>low verylittle little average high full</i>] -T <i>mirror-component-name</i> [-f <i>volume snapshot</i>] [-i <i>required optional</i>] [-d <i>volume-description</i>] [-g <i>pool-name</i>] [-v <i>low medium high</i>] [-S <i>storage-domain-name</i>] volume <i>mirrored-volume-name</i></pre>
Mirror existing volume <i>volume-name</i> . The total new components from both the component-volume and mirror-pool options must not exceed three. (Minimum version 3.0.0.)	<pre>sscs modify -M [-c <i>volume[...]</i>] [-m <i>pool[...]</i>] [-i <i>required optional</i>] [-d <i>volume-description</i>] [-g <i>pool</i>] [-v <i>low medium high</i>] [-S <i>storage-domain-name</i>] volume <i>volume-name</i></pre>
Add existing volume(s) <i>volume[...]</i> to mirrored volume <i>mirrored-volume-name</i> as a new component volume, and/or add new components from pool(s) <i>pool</i> . (Minimum version 3.0.0.)	<pre>sscs add [-c <i>volume[...]</i>] [-m <i>pool[...]</i>] [-i <i>required optional</i>] [-v <i>low medium high</i>] [-S <i>storage-domain-name</i>] volume <i>mirrored-volume-name</i></pre>
Configure snapshot reserve <i>mirror-component</i> for mirrored volume <i>mirrored-volume-name</i> , which does not yet have a snapshot reserve configured. (Minimum version 3.0.0.)	<pre>sscs modify -P <i>pool</i> -C 1...32 -L <i>low verylittle little average high full</i> -T <i>mirror-component</i> [-f <i>volume snapshot</i>] [-S <i>storage-domain-name</i>] volume <i>mirrored-volume-name</i></pre>
Take a snapshot of a mirrored volume that does not have snapshot reserve space configured. (Minimum version 3.0.0.)	<pre>sscs snapshot -v <i>source-volume-name</i> -P <i>pool</i> -C 1...32 -L <i>low verylittle little average high full</i> -T <i>mirror-component</i> [-f <i>volume snapshot</i>] [-d <i>volume-description</i>] [-S <i>storage-domain-name</i>] volume <i>new-snapshot-name</i></pre>
Split component volume <i>component-volume-name</i> from a mirrored volume in storage domain <i>storage-domain-name</i> . (Minimum version 3.0.0.)	<pre>sscs modify -t [-S <i>storage-domain-name</i>] volume <i>component-volume-name</i></pre>
Rejoin split component volume <i>component-volume-name</i> to the mirrored volume in storage domain <i>storage-domain-name</i> . (Minimum version 3.0.0.)	<pre>sscs modify -j [-R] [-S <i>storage-domain-name</i>] volume <i>component-volume-name</i></pre>

Mirror Volume Commands *(continued)*

Description	Command
Break component volume <i>component-volume-name</i> from the mirrored volume in storage domain <i>storage-domain-name</i> . (Minimum version 3.0.0.)	sscs modify -b [-f] [-S <i>storage-domain-name</i>] volume <i>component-volume-name</i>
Modify the resilver priority of mirrored volume <i>mirrored-volume-name</i> in storage domain <i>storage-domain-name</i> . (Minimum version 3.0.0.)	sscs modify -v low medium high [-S <i>storage-domain-name</i>] volume <i>mirrored-volume-name</i>
Repair the mirror logs of the mirrored volume <i>mirrored-volume-name</i> . (Minimum version 3.0.0.)	sscs modify -r low medium high [-S <i>storage-domain-name</i>] volume <i>mirrored-volume-name</i>

License Commands

Description	Command
Add a valid license key not previously added to the system. (Minimum version 3.0.0.)	sscs add license <i>license-key</i>
Remove a valid license key previously added to the system. (Minimum version 3.0.0.)	sscs remove license <i>license-key</i>
Display details of one or more license keys specified by <i>license-key</i> . Each license key identified must have been previously added to the system. If not specified, display a summary of all license keys. (Minimum version 3.0.0.)	sscs list license [<i>license-key</i> [,...]]
Display the license compliance summary for all features. (Minimum version 3.0.0.)	sscs list -c license

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