



Seagate 5005/4005/3005 Series Release Notes for Firmware Version GN280R010-01/GT280R010-01

Part Number: 204207800-00

Version: C

Published: September 2022

© 2022 Seagate Technology LLC or its affiliates.

The information contained herein is subject to change without notice. The only warranties for Seagate products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Seagate shall not be liable for technical or editorial errors or omissions contained herein.

Acknowledgments

Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation.

Description

This package delivers firmware for 5005/4005/3005 Series controller enclosures and expansion enclosures. Expansion-enclosure firmware is embedded in GN280R010-01/GT280R010-01 firmware bundles and is updated when attached to one of the following controller enclosures. JBOD GEM version is UUT6.22_Channel_R2019.20.11_RC10_REL.

Model	Firmware version
5005	GN280R010-01
4005	GT280R010-01
3005	GT280R010-01

Update recommendation

This is a recommended firmware update for 5005/4005/3005 Series products.

Operating systems

Supported operating systems include the following.

Controller/expansion enclosures

- Microsoft Windows Server 2022
- Microsoft Windows Server 2019
- Red Hat Enterprise Linux 8.5
- Red Hat Enterprise Linux 7.9
- Red Hat Enterprise Linux 7.8
- SuSE Linux Enterprise Server 15.3
- Ubuntu 19.04
- VMware ESXi Server 7.0 U3

JBOD enclosures

- Microsoft Windows Server 2022
- Microsoft Windows Server 2019

- Red Hat Enterprise Linux 8.5
- Red Hat Enterprise Linux 7.9
- Red Hat Enterprise Linux 7.8
- SuSE Linux Enterprise Server 15.3
- VMware ESXi Server 7.0 U3

Installation instructions

To install this firmware by using either the Storage Management Console (SMC) or the FTP/SFTP interface, see the *Seagate 5005/4005/3005 Series Storage Management Guide*.

Updating VPD (GEM) firmware

An enclosure can contain one or two I/O modules. Each I/O module contains an enclosure management processor (EMP). All modules of the same product model should run the same firmware version.

You can update the firmware in each EMP by loading a firmware file obtained from the enclosure vendor.

To update VPD (GEM) firmware

1. As a user with a `manage` role, obtain the appropriate firmware file (`.gff`) and download it to your computer or network. You can also contact Technical Support at <https://www.seagate.com/in/en/contacts/> or frontline@seagate.com to get the `.gff` file.
2. Use log data to identify which midplane VPD needs to be updated.
3. In the CLI, determine the enclosure ID and device ID of each EMP you want to update. Do this by running the `show enclosures` command and noting the values in the `EMP A CH:ID` and `EMP B CH:ID` columns.
4. In the SMC, prepare to use FTP:
 - a. Determine the network-port IP addresses of the system's controllers.
 - b. Verify that the system's FTP service is enabled.
 - c. Verify that the user you will log in as has permission to use the FTP interface. If the system has a single controller stop I/O to disk groups before starting the firmware update.
5. Open a Command Prompt (Windows) or a terminal window (UNIX) and navigate to the directory containing the firmware file to load.

6. Enter:

```
ftp controller-network-address
```

For example:

```
ftp 10.1.0.9
```

7. Log in as an FTP user.
8. Make sure the client is in binary transfer mode. Enter:

```
binary
```

9. Enter:

For PCM GEM update,

```
put firmware-file encl:enclosure-ID:device-ID:pcm
```

For midplane VPD/CPLD GEM update,

```
put firmware-file encl:enclosure-ID:device-ID
```

CAUTION: Do not perform a power cycle or controller restart during the firmware update. If the update is interrupted or there is a power failure, the module might become inoperative. If this occurs, contact technical support. The module might need to be returned to the factory for reprogramming.

It typically takes one minute to update each EMP in an enclosure. Wait for a message that the code load has completed.

NOTE: If the update fails, verify that you specified the correct firmware file and try the update a second time. If it fails again, contact technical support.

10. Repeat the previous step for each enclosure that needs to be updated.
11. Quit the FTP session.
In the case of vpd/cpld GEM update, reboot both Storage Controllers for the changes to take effect.
No controller reboot is required after PCM GEM update.
12. Verify that each updated expansion module has the correct firmware version.

Features or enhancements introduced in GN280R010-01/GT280R010-01

- Added support to the new Ecodesign 2.2kW Titanium PSUs for use in 5U84 enclosures.

Issues fixed in GN280R010-01/GT280R010-01

- Fixed `Overlapped command Check` condition.
- Fixed an issue of `Historical Performance Statistics` in Storage Management Console or Command Line Interface.
- Fixed the firmware upgrade using UUT issue on Lenovo D3284 storage systems.
- Fixed a controller crash issue when global spare was assigned.
- Fixed an issue where Dell product serial numbers were not correctly getting recorded in system logs.
- Added support to SWAP bit using storage controller.
- Fixed an issue where a multicore system crashed with errors related to Macro Level I/O (MLIO).
- Fixed an issue where PCM firmware update failed with an I/O timeout error.
- Improved the event logging mechanism in storage controller logs.
- Fixed the ADAPT map corruption issue.
- Fixed an issue of swap bit of Host temp sensor in SES page 2.
- Fixed an issue where some host mappings were lost after cold booting a storage system.
- Fixed "send syslog" and SNMP notification issue when the system is configured with FQDN.
- Fixed an issue where a virtual pool's high capacity threshold was reached and controller A crashed.
- Enhanced DDR error handling in response to a dual-controller crash.
- Added drive status check in error handler to issue `FDE init` or `retry`.
- Fixed an issue where implementation of 802.1x certificates does not check for any activity in progress before activating the WPA 802.1x certificates.
- Increased sync IO timeout and re-issued original srb.
- Fixed an issue where a controller killed its partner controller due to heartbeat loss.
- Fixed an issue where a data-unavailability situation occurred due to rebooting of a controller.
- Fixed incorrect status reported in SupportAssist logs and upgrade notifications.
- In the Storage Management Console, fixed inconsistencies between English and non-English languages in the confirmation dialog box when modifying a volume.
- Fixed an issue where a root expander experienced a communication fault.
- Fixed an issue where a PCIe crash exceeded an I/O synchronization timeout.
- Fixed an issue where a controller crashed in the NOCP area.
- Fixed an issue where a pool went offline after an ADAPT disk group became quarantined.
- Fixed an issue where sensitive information was shown in two system logs.
- Fixed an issue where a controller crashed due to Double Deletion of Host IO in ATS abort path.
- Fixed an issue where an incorrect string was shown for a temperature alert event on an enclosure.
- Fixed an issue where customer failed to configure an email account using smtp.office365.com.

- Fixed an issue where a user was unable to login to Storage Management Console if the username or password contains special characters like £.
- Fixed an issue where firmware upgrade failed on storage systems until the MC restarted.
- Fixed an issue where the CLI commands `show license` and `query peer-connection` showed inconsistent license information.
- Fixed an issue where the Management Controller failed to be ready.
- Fixed an issue where `UNMAP` feature for HDD drive incorrectly enabled during enclosure renumbering.
- Fixed an issue where Engineering lab storage systems failed to work using DHCP.
- Fixed an issue where a controller crashed while multiple copyback operation was running on the same disk group.
- Fixed an issue where disks were becoming degraded during firmware update.
- Fixed an issue where incompatible IOM firmware was detected on IOM A after a firmware upgrade.

Features or enhancements introduced in GN280R009-02/GT280R009-02

- Enclosure Management port is now compliant with IEEE 802.1x network authentication protocol.
- Added Storage Controller capability to detect Field Accessible Reliability Metrics Specification time series log.
- Added support to invoke and monitor Seagate Lyve Pilot agent (Unified Data Service).
- Added Unified Data Service commands `set protocol` and `show protocol`.
- Changed the default scrub interval from 24 hours to 360 hours (15 days).
- Added support for collecting logs.
- Added support to collect drive logs for Field Accessible Reliability Metrics frames.
- End user license agreement and Telemetry statements are updated.
- Added capability to allow full resynchronization of replication sets at will.

Issues fixed in GN280R009-02/GT280R009-02

- Developed Unified System Management (USM) Upgrade Toolkit for 5U84 and 2U12/2U24 JBODs.
- Fixed an issue where both controllers crashed after controller B was brought back up while deleting a volume.
- Fixed an issue where a dual controller crashed during the disaster reverse recovery operation, done using `kill/unkill` on the system.
- Fixed an issue where `clear expander-status` fails to clear `expander-status` for 5U84 enclosure.
- Fixed an issue where, during system setup using a serial connection, after viewing the EULA the user could not quit by pressing 'Q'.
- Fixed an issue where a crash happened due to a timeout detected by the auto stall recovery code during the shutdown/reboot test. This issue happened when couple of disks become bad during the shutdown/reboot test, due to which the disk group got quarantined, and one of the controllers detected a 'shutdown stall' for the other controller.
- Fixed an issue where the wrong disk was being failed during a bad-block recovery.
- Fixed an issue of offline disk groups remaining quarantined even after the controller was live.
- Implemented **Salvage** mode for field recovery red-alerts.
- Fixed sampling problems for CloudIQ volume statistics and pool statistics.
- Fixed an issue where last support-assist log upload was not successful. Send logs last events status displayed wrong messages. There were no events notification in log events viewer regarding the log upload.
- Fixed issue of reading incorrect enclosure configuration page and swapping of incorrect enclosure configurations, when the system is busy in SCSI rescanning.
- Fixed an issue of controller crash due to heartbeat loss.
- Fixed the wrong reporting where power supply failure reported capacitor failure.
- Fixed an improper system request for a Performance Tier license after upgrade to GN280R002-03/ GT280R002-03.

- Fixed an issue in the WBI where the Create Snapshot scheduler did not correctly convert AM/PM schedules (12-hour time format) to 24-hour time format.
- Fixed an issue where the controller crashed while deleting read-cache disk group.
- Fixed an issue where a user could successfully upload an expired certificate and install it to the array.
- Added the ability to retrieve UDS and SM2 logs from the storage system without removing the disks. The logs can be retrieved using the `get logs` command or the `ftp` command.
- Fixed an issue where, after firmware update, power supply firmware and VPD versions were not updated in the output of the CLI `show versions frus` command.
- Fixed an issue where disk scrub was being attempted on FDE locked disks, causing them to be marked as 'Leftover'.
- Fixed an issue where the replaced controller's IP address changed back to the controller's old IP address after enclosure power cycle or shutdown restart of both controllers.
- Changed the alert level from error to informational of CloudIQ upload failure event.
- Deprecated no-mirror cache optimization mode.
- Fixed an issue where the virtual pool was offline due to unreadable metadata.
- Fixed an issue where there was no automatic rebuild due to drive layout mismatch post enclosure replacement.
- Global spare drive now gets selected by slot affinity and gets added as disk group spare.
- Fixed an issue in historical performance, where the user was querying for a time range up to the current time but was getting value an out of time range error.
- Fixed an issue where it was not possible to delete an invalid iSCSI initiator, or the initiator which did not adhere to the IQN standards. It was possible to log in with an invalid IQN and validation was not done while logging in. But validation was done while deleting an invalid IQN and it was not possible to it.
- Fixed an issue where three disks were in leftover after a system restart. The issue was that the two controllers were running scrub on the same disk group at the same time. This caused metadata corruption on multiple drives and the drives were in a leftover.
- Fixed the nested topology change issue.
- Fixed issues where error detected in scrub caused controller to get killed.
- The complete debug region memory buffer can now be used to extract disk logs.
- Fixed an issue where SNMP walk did not get correct sysuptime.
- Fixed self assert in case of compact flash diagnostic failure during boot.
- Fixed an issue where customer was able to install, configure, and use unsupported disks until a rescan/reboot found them. Unsupported disks cannot be used now.
- Fixed failure of the replication snapshots with retention policy, when the suffix crossed number 9999.
- Seagate storage systems now implement mechanism of self-detection of multi boot failure and avoids a re-boot.
- For ADAPT disk groups, fixed an issue where disks that were not used in an expand operation were associated with the disk group during rebalance operation.
- Made interprocessor communication (IPC) path changes to handle multi-context invocation and incorrect error address reporting.
- Fixed page fault crash in Inband Management Read/Write path.
- Fixed an issue where after upgrading to GN280R002-03/GT280R002-03, system is asking for Performance Tier license.
- Fixed an issue where it was not possible to unlock FDE disk after using the `set fde-state repurpose` command.
- Fixed an issue where while using WBI, it was not possible to set the SMTP server name if the domain suffix was more than 6 characters long.
- Fixed an issue where while receiving traps on MIB browser it was displaying IP address of a different controller rather than the address of the controller on which it was configured.
- Fixed an issue where the FDE passphrase was not masked in the GUI.
- Fixed a large memory leak in root platform.
- Fixed an error where the shared library `libz.so` was not loaded correctly.

- Fixed an issue of flooding of logs due to repeated SCSI enclosure services (SES) page 2 control requests.
- Fixed an issue where the virtual pool went offline due to unreadable metadata.
- Fixed an issue where the snapshot was schedule deleted after a volume expansion.
- Fixed GEM CLI `ddump_pwrMgr` to show correct power cooling module /powersupply unit serial no.
- Fixed disk-zone distribution among stripe zones in ADAPT rebalance after disk replacement.
- Fixed a race condition that happened between task management function (TMF) sent and the TMF aborted.
- Fixed issue where a disk-group initialization failure and then a scrub abort on the same disk group caused the disk group to go offline.
- Fixed the drive probe completion issue for Toshiba (Dell supported) drives.
- Fixed the issue of data corruption that happened during adapt target rebuild and rescan.
- Security enhancements implemented.

Issues fixed in GN280R008-04/GT280R008-04

- Enabled retrieval of drive logs from Seagate drives.
- Fixed ME4 Controller panic page fault.
- Fixed invalid string references on the Install License screen.
- Fixed the 24-hour start time format conversion.
- Enabled retrieval of drive logs from Seagate drives in Seagate storage systems.
- Security enhancements implemented.
- Increased default media scrub interval from 24 hours to 360 hours.
- Fixed failure in ADAPT disk movement in the chassis.
- Updated warning and critical temp thresholds.
- Ambient temperature sensor readings corrected on 2U12/2U24/4U24.
- Updated midplane CPLD low density to 15V.
- Enabled meter scrub duration.
- Supported single step upgrade from older release to latest G280 release.
- Upgraded OpenSSH to openssh8.2p1 version.
- Updated the USB core driver.
- Removed Dequarantine_Vdisk and Trust_Vdisk from Jenkins Silver list.
- Fixed read cache from running out of CEs for internal reads.
- Initiated invocation of nvdevice UID check for RSCU case.
- Added `Show EULA` on WBI for Dell OEM systems.
- Added clearing of corresponding NV UID quarantine bit mask when container number is freed.
- Fixed incorrect reporting of `All global spare deleted` event when global spare still available.
- Changed severity of event 608 (`backend miscabled`) from `Informational` to `Error`.
- Added output of the `show support-assist` and `show cloud-iq` CLI commands to debugging log file.
- Updated logic to retrieve volume groups by name.
- Modified `Validate_Sysinfo` to skip `lastANotified` and `lastBNotified`.
- Corrected handling of disk group when associated disk is pulled.
- Corrected `Mappings Verification` text box.
- Fixed `Create Initiator` issue on SAS controllers.
- Removed unnecessary error prints from lone zone container.
- Added a confirmation message for the shutdown command.
- Improved `reset all-statistics` for the CLI handler.
- Fixed SEEPROM read from FRU event generation.
- Prevented unwanted removal of in-use disk group.

- Fixed page fault during `restore defaults factory` testing with SAS host interface.
- Improved the DMA-to-cache transfer function.
- Fixed shutdown stall when flushing unwritten cache data to a quarantined disk group.
- Fixed non-PI errors and prevented data corruptions.
- Fixed sideplane firmware downgrade issue for 5U84 enclosures.
- Set default storage type as paged for supported virtual disk groups.
- Fixed timing issue in SAFTE initialization.
- Implemented proper identification strings in disk reports.
- Fixed improper RAID-10 and RAID-50 preemptive reconstruct.
- Fixed controller hangs during ADAPT preemptive reconstruct.
- Added check for cache and page storage initialization before starting ADAPT.
- Modified code to avoid continual rebuilding.
- Prevented unnecessary update in missing drive mask function when drives are missing.
- Corrected disk consideration during RAID initialization.
- Fixed shutdown stall when flushing unwritten data when the controllers are shutdown and then rebooted using MC CLI or MUI.
- Fixed hangs in BBR recovery for copyback and fenced data detection.
- Fixed a crash for write I/O operations when the pool becomes full.
- Fixed a crash due to non-availability of memory resources.
- Improved handling of out of NV_CPU_BLPTS function.
- Fixed `Cancel Replication` message crash.
- Changed replication set queue policy from discard to queue-latest if either side's pool is over the high threshold.
- Changed a failed-over system to finish in-progress snapshot operations before attempting a failback.
- Improved the debug logs for better engineering analysis.
- Fixed NMI kill due to shutdown hang.
- Added support for new CAPI error codes.
- Added Check pool limits to prevent users from expanding ADAPT disk group beyond the pool's capacity limit.
- Fixed PSC removal during initialization.
- Resolved compilation error and removed `userArray` variable usage.
- Change made to mark a dead drive with an error without reading it to avoid accessing the physical failed drive.
- Set default `password changed` flag correctly for new user.
- Fixed dual controller crash issue.
- Modified controller shutdown to occur only once by sensor monitoring after detecting the error threshold.
- Fixed controller I/O crash issue.
- Fixed controller crash related to asynchronous replication.
- Fixed a controller hang between split write I/O and `Reset Snapshot`.
- Fixed in-band management issue.
- Fixed TX queue resource leak on TMF responses including `FRC_ERR` flag cleanup and crash found during `FRC_ERR` test.
- Fixed memory leak.
- Rearranged the order in which the commands to enable or disable both `CloudIQ` and `SupportAssist` are executed.
- Added missing UTC time zones in valid parameters for `set support-assist-info` command.
- Improved text visibility in the Advanced Settings panel's Disk Spin Down Suspend Period area.
- Security enhancements implemented.

Issues fixed in GT280R007-03

- Added patch for CVE_2015_5364.
- Added patch for CVE-2015-1465.

- Prevented removal of a Paged Storage Component that is being used as the source of a metadata copy.
- Fixed page fault during restore defaults factory testing with SAS host interface.
- Fixed ATS state machine to return DMA to cache by checking for no Outstanding Worker IO's.
- Added patch for CVE-2016-7117.
- Added patch for CVE 2016-10229.
- Added patch for CVE 2014-2523.
- Fixed an issue of shutdown stall due to flushing of dirty data to a quarantined disk group.
- Handle non-PI WIO errors by retrying the WIO and Prevent Data Corruptions by propagating WIO error status into any associated coalesced WIOs.
- Sideplane firmware downgrade issue.
- For configurations where only paged disk-groups are supported, set the defaultarray type as paged.
- Fixed a timing issue in SAFTE init.
- Fixed the drives report `Degraded health (UNUSABLE)` after changing FDE state from `Unsecured` to `Secure`.
- Fixed RAID-10 and RAID-50 preemptive reconstruct if multiple drives are degraded.
- Fixed controller hangs during ADAPT preemptive reconstruct.
- Added a check for `Cache and Page Storage` initialized before starting ADAPT.
- Changed the code to not rebuild continually.
- When SC receives a manual dequarantine command, it needs to check the `missingDriveMask` of the container. If missing mask is non zero, then do not set a partition as dead and fail the manual dequarantine command. This will avoid an unnecessary update in the dead map when drives are missing.
- Initialize the drive down list earlier, so that down drives are correctly considered during the RAID initialization.
- When the issue of shutdown stall due to flushing of dirty data to a quarantined disk group is fixed (TT-51665/FMW-33107), avoid loss of dirty data when the controllers are shutdown and then rebooted using MC CLI or MUI.
- Fix hangs in BBR recovery running copyback and detecting fenced data.
- G280 CI: build#466 & build#499 Test - Schedules_ Remain_After_Kill_Unkill.
- Fixed assert in the PS I/O error path when the pool is full.
- Improve handling of out of NV_CPU_BLPTS in Read Tree Actor and in Read BLPT actor.
- PS isBlpteLocked() - move check for TLPT lock to outside of non-null blpte clause.
- Fixed a crash which was caused when a `Cancel Replication` message is sent to a secondary system that doesn't have the Replication Set.
- Queue policy changed for pool high threshold reached.
- Finish active snapshots before failback.
- Improved NOPM tracing for debug.
- Fixed a NMI kill due to shutdown hang during SDR with replications.
- Added support for new CAPI error codes.
- Added Check pool limits before expanding a PSC.
- Fix for removing a PSC during initialization.
- Resolved compilation error. remove use of `userArray` variable.
- Fixed a crash due to excessive media errors.

Issues fixed in GT280R007-02

- Set the `default password changed` flag correctly for new user.
- Dual controller crash observed.
- [Codeload] Controller is down after codeload. Fix to only shutdown once when we have a temperature failure.
- Controller A crashed while running I/O on system with snapshot schedules.
- [AR] Controller A crash.
- Fix possible split write I/O volop deadlock.

Issues fixed in GT280R007-01

- Fix issue related to in-band management.
- Chelsio IOLibs changes - Fix a TX queue resource leak on TMF responses.
- Fix memory leak in PHClient.
- Rearranged the order in which commands to enable or disable both `CloudIQ` and `SupportAssist` are executed.
- Added missing UTC time zones in the list of valid parameters of `set support-assist-info` command.
- Increased width of container widget and removed some margins so that contained text on **Advanced Settings** screen is visible properly.
- Create Snapshot Scheduler does not convert time specified in PM to 24 hour format correctly.

Known issues and workarounds

Issue: Default values in Help section differ from actual output after performing `restore defaults factory`.

Workaround: None.

Issue: While adding a new disk group, user cannot change the disk group's type in the WBI.

Workaround: Use the CLI parameter `type linear|virtual|read-cache` to change a disk group's type while running the `add disk-group` command.

Issue: Firmware downgrade from G280 to G265 fails with the following error:

Firmware update blocked because the bundle contains firmware that does not support the system's storage pools. Attempt to down-grade firmware on controller that doesn't support the system's storage pools.

Workaround: Use the WBI or the CLI to delete the pools created with G280 firmware on the controller and retry the firmware downgrade. If you are unsure which disk groups were created using G280 firmware, please contact support for assistance.

Issue: The WBI does not support the `Copy Volume` action for linear volumes.

Workaround: You can use the CLI `copy volume` command to copy a linear volume if the destination volume is a virtual volume and is owned by the same controller as the linear volume.

Issue: Controller A crashed during a controller pull/push operation.

Workaround: None. This was a rare case.

Issue: GN280R007-02/GT280R007-02 has no midplane VPD/CPLD and PSU files included in the build.

Workaround: Use the FTP process to upload the midplane VPD/CPLD and PSU files.

Issue: Disk groups went offline as linear disk groups while upgrading from GN280R007-02/GT280R007-02 to GN280R007-03/GT280R007-03.

Workaround: Use the CLI `Trust` command.

Issue: The WBI error message (schedule was not found) is not appropriate while modifying/expanding the size of a volume.

Workaround: Use the CLI.

Issue: SSD disk groups can be created without a Performance Tier license.

Workaround: No workaround necessary.

Issue: MC (partner) is not ready while downgrading to GN275R003-01/GT275R003-01 with PFU disabled.

Workaround: None. Firmware must be upgraded/downgraded per the code load sheet.

Issue: Incorrect queue depth values are displayed for historical performance statistics.

Workaround: None.

Issue: The maximum volume size limit for an ADAPT virtual or linear disk group is 1 PiB ; for a non-ADAPT virtual disk group it is 128 TiB ; and for a non-ADAPT linear disk group the maximum size is limited only by the size and capacity of member disks.

Workaround: None.

Issue: While upgrading from GN260R008-03 to GN280R008-09, firmware upgrade fails and the controllers starting crashing with page faults.

Workaround: Replace faulty disk before upgrading from G260 to G280.

Issue: When the drive spin down feature is enabled, it is not possible to unlock the FDE drives.

Workaround: Disable the drive spin down feature and wait for approximately 2-3 minutes, and perform a manual rescan. Once the drives spin up, the system can be unlocked by entering the FDE passphrase.

Issue: The Management Controllers reboot in a loop after creating a monthly snapshot schedule.

Workaround: While creating a scheduled snapshot, clear the **Repeat every** checkbox.

Issue: A disk detected timeout when you do a repetitive shutdown, restart with adapt reconstruction and manual rescan.

Workaround: None.

Issue: When using the Storage Management Console to replace a disk, the health panel does not correctly reflect the LED status of the

disks until the disk group rebuild starts. Any amber LEDs illuminated on the disks are not shown as illuminated in the health panel.

Workaround: The health panel is updated after the disk group is rebuilt.

Issue: In the Storage Management Console and the `set chap-record` command, the `secret` and `mutual-secret` parameters accept the entry of a double-quote character (`"`), which is an invalid character.

Workaround: If a double-quote character was included in the `secret` or `mutual-secret` parameter, remove it and re-create those entries.

Issue: When creating a username during initial CLI login, the following invalid characters are allowed in the username: angle brackets (`<` `>`) and single quote (`'`).

Workaround: Re-create the username without using angle brackets (`<` `>`) and single quote (`'`).

Effective date

September 2022