



# Seagate 5005/4005/3005 Series Release Notes for Firmware Version GN280R006-02/GT280R006-02

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## Description

This package delivers firmware for Seagate 5005/4005/3005 Series controller enclosures and expansion enclosures. Note that expansion-enclosure firmware is embedded in GN280R006-02/GT280R006-02 firmware bundles and is updated when attached to one of the following controller enclosures.

Model	Firmware version
5005	GN280R006
4005	GT280R006
3005	GT280R006

## Update recommendation

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

## Operating systems

Supported operating systems include:

- Microsoft Windows Server 2019  
Microsoft Windows Server 2016 Hyper V  
Microsoft Windows Server 2016
- Red Hat Enterprise Linux 8.0  
Red Hat Enterprise Linux 7.6
- SuSE Linux Enterprise Server 15  
SuSE Linux Enterprise Server 12 SP2
- VMware ESXi Server 6.7 U1  
VMware ESXi Server 6.5 U2

## Installation instructions

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

## Features or enhancements introduced in GN280R006-02/GT280R006-02

- When you first log in, you will be prompted to create a new username and password, which you can use to create additional users and to configure and provision the system. Default users are no longer provided. This is true for new installations only and if the CLI **restore defaults factory** command is issued. Existing installations being upgraded to G280 will retain the previous established usernames and passwords.
- Added output of the CLI command **show disk-statistics error-stats**, which shows live error statistics for all disks, to the configuration section of the debug log (`store_date.logs`).
- Changed the system fault LED to illuminate during all disk events.
- Added a table to the logs to show host network connections.
- Fixed the help for the Storage Management Console and the CLI **set snmp-parameters** command to list the correct default values for SNMP settings and to specify the maximum size in bytes for the trap host name.
- In the Storage Management Console, for setting email parameters, modified the prohibited-character lists and specified input-length limits. For the **set email-parameters** command, added the server address maximum size, an email address format description, and character limitations for the email domain.

## Issues fixed in GN280R006-02/GT280R006-02

- Security enhancements.
- Fixed an issue where the CLI **reset disk-group-statistics** command did not reset the counters for the disk groups.
- Fixed an issue where after restarting one of the controllers, the **show disks perf** command showed incorrect data for disks that were not part of a disk group and had no jobs running on them.
- Enabled more than 50 volume groups at a time to be deleted in the Storage Management Console or the CLI.
- Fixed an issue where the last deleted scheduled task still resided in the Storage Management Console's Volumes topic until the browser was refreshed.
- Fixed an issue where attempting to create a disk group with a name that contained the lowercase string "dga" failed.
- In the Storage Management Console, the Turn Off LEDs button no longer displays an error message if no components are selected.
- Fixed an issue where an http response header was missing in the firmware.
- Changed the Storage Management Console to support entering and displaying the system time setting in 24-hour format only, as in the CLI.
- Fixed an issue where an improper warning message appeared while creating a replication set for a volume group.
- Corrected the error message that appears when trying to delete the destination volume of an in-progress volume copy operation.
- Fixed an issue where adding an ADAPT disk group to a storage system having only a single RAID 6 disk group caused a controller crash.
- Fixed an issue where, after loading firmware via FTP, the Storage Management Console session remained active with stale information.
- Fixed an issue where firmware update displayed a "Firmware update failed" error while update was running successfully in the background.
- Addressed an issue where the FDE lock key could not be changed when the storage system contains failed, leftover, or usable disks by displaying a message that explains how to resolve the condition.
- Fixed an issue that prevented exporting historical statistics from the Performance topic in the Storage Management Console using the Internet Explorer browser.
- Fixed an issue where, in the Storage Management Console, when changing a password in the Manage Users panel the Confirm Operation dialog did not work as expected.
- Prevented users from trying to create a read-cache disk group on a system with a Performance tier, which is not supported.
- Fixed an issue that prevented the Storage Management Console's Performance topic from showing performance data for virtual pools.
- Fixed an issue that caused syslog notification levels to be used for SMTP email notifications.
- Fixed an issue with running firmware update in the Storage Management Console.

- Fixed an issue where user role modification from the Storage Management Console failed with error message "Unable to modify the user. An invalid role was specified."
- Fixed issues where German text overran UI buttons.
- Fixed an issue in the Storage Management Console that caused text to wrap improperly in the Manage Schedules dialog when using the Chrome browser.
- For the Storage Management Console in the Internet Explorer browser: fixed the horizontal alignment of several fields for creating a replication schedule, for modifying a replication queue policy, and for modifying a replication peer connection.
- Fixed incorrect reporting of the number of failed disks when performing disk firmware update for multiple disks at once in FTP.
- Fixed an issue in the Storage Management Console where, after renaming a mapped volume, the Mappings topic was not updated.
- Fixed an issue in the Storage Management Console that prevented horizontal scrolling in the Performance topic.
- Fixed a problem in the Storage Management Console and the create host-group command that prevented adding a new host to an existing host group due to dissimilar mappings.
- Fixed an issue that occurred during failover/recovery, where the controller crashed with a page fault during dequarantine.
- Implemented a system health check such that when a user tries to restart a Storage Controller, a warning message specifies whether any pools are unhealthy.
- Fixed an Atomic Test and Set (ATS) related controller crash.
- In the Storage Management Console's Add Disk Group dialog, corrected the Size field in the Disk Selection Sets table to use the configured unit preference.
- Fixed an issue in the Storage Management Console that caused dedicated spares to be labeled as global spares.
- In the Storage Management Console's Pools topic, modified the Disk Group Information hover panel to show the chunk size of the selected disk group.
- Fixed an intermittent problem with downloading and saving logs from the Storage Management Console.
- Corrected an issue where a pool went offline due to a read-cache disk failure, by adding a fix to automatically remove offline read-cache disk groups.
- In the Storage Management Console and CLI, the Independent Cache Performance Mode feature is deprecated and has been removed.
- In the Storage Management Console, added a comma to the list of invalid characters displayed during email parameters validation.
- Corrected the description of the system behavior following execution of the **clear fde-keys** command.
- For the Japanese locale of the Storage Management Console in the Google Chrome browser: fixed a display issue that cut off the bottom of the Session Time in the Storage Management Console's header.
- In the Storage Management Console, under Actions > System Settings > Notifications, corrected the displayed default value for SNMP write community to "private" instead of "public."
- Corrected the help for the set advanced-settings command to show that the background-scrub parameter is enabled by default.
- In the Storage Management Console, under System Settings > Notifications > SNMP, divided the Informational/Resolved option into two separate options.
- Fixed an issue in the help for the Storage Management Console Host Setup page that displayed unparsed strings instead of the proper labels.
- [JBOD] Fixed an issue where an incorrect number of disks were detected.
- [JBOD] Modified the GEM command **driveinv** to show disk temperatures.
- [JBOD] Updated help for the GEM command **set\_zone\_mode** to include the optional parameter **zone mode**.
- [JBOD] Fixed an issue where pulling SAS cables caused a "Phy connection failure" fault.
- [JBOD] Fixed an issue where a sled cable fault LED was ON when no fault was reported in GEM.
- [JBOD] Fixed an issue where the GEM command **driveinv** showed incorrect disk temperatures.
- [JBOD] Fixed an ADAPT disk-group issue involving reconstruction and quarantine.
- [JBOD] Fixed a GEM communication fault resulting from a brief power failure.
- [JBOD] Updated Universal Update Tool (UUT) options for consistency with jbodupdate tool.
- [JBOD] Fixed issues where CLI commands caused a GEM failure and IOM reboot.

## Known issues and workarounds

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**Issue:** In the Storage Management Console's User Management panel, if you try to create a user with a name that already exists, an error message will appear. If you then toggle the SNMPv3 setting the error message will be cleared.

**Workaround:** When the Apply button is grayed out, check whether the name is already in use.

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**Issue:** The CLI **create snapshot** command does not handle listing multiple volume or snapshot names that are enclosed in quotes, if any of the names contain a space.

**Workaround:** Run the command separately for a volume or snapshot whose name includes a space.

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**Issue:** The CLI **show snapshots** command may display an incorrect unique-data value. After taking a snapshot of an existing snapshot, the unique-data value will be reset to 0. Despite this, the **show snapshot-space** command will show the allocated space correctly.

**Workaround:** None.

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**Issue:** In the Storage Management Console, after changing the host port mode from iSCSI to FC, the "replicate now" and "replication set status" fields show incorrect status during replication.

**Workaround:** Stop replication before changing the host port mode.

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**Issue:** In the Storage Management Console, when I/O is in progress, a failed or removed controller causes the aggregate IOPS and MB/s fields in the Home topic to display 0 values. When the controller is reinstalled, proper values appear.

**Workaround:** Both controllers must be present and active for the values to appear again.

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**Issue:** In the Storage Management Console, when deleting a schedule, a success message will appear but the schedule may remain listed in the Manage Schedules panel. Trying to delete the schedule again will result in error `Unable to delete schedule. The schedule was not found.`

**Workaround:** Refresh the browser.

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**Issue:** While creating a peer connection, the new peer connection is not shown in the secondary system's Storage Management Console until it is refreshed.

**Workaround:** Refresh the browser on the secondary system or use the CLI.

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**Issue:** A single controller crashed during scheduled replication.

**Workaround:** None needed. The controller automatically recovers immediately after the crash without user intervention.

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**Issue:** Replication set status differs in the primary and secondary systems during scheduled replication. The replication set status shows "Ready" for the secondary system and "Running" for the primary system, which is incorrect.

**Workaround:** If this condition persists, manually abort the replication and restart it. Any queued replication will start after the abort.

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**Issue:** Customer sees an Expander Controller code-load failure signal and the controller reports that it has an invalid bundle.

**Workaround:** Reinstall the firmware bundle.

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**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 actual disks are not shown as illuminated in the health panel.

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

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**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 and re-create those entries.

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

**Workaround:** Re-create the user name with valid characters.

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## Effective date

February 2020