SEAGATE

Seagate 5005/4005/3005 Series Release Notes for Firmware Version GN280R008-04/GT280R008-04

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Description

This package delivers firmware for 5005/4005/3005 Series controller enclosures and expansion enclosures. Note that expansion-enclosure firmware is embedded in GN280R008-04/GT280R008-04 firmware bundles and is updated when attached to one of the following controller enclosures.

Model	Firmware version
5005	GN280R008-04
4005	GT280R008-04
3005	GT280R008-04

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.

Updating VPD 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 firmware

1. As a user with a `manage` role, obtain the appropriate firmware file (`.gff`) and download it to your computer or network.

2. Use to 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:

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

   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.

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10. Repeat the previous step for each enclosure that needs to be updated.

11. Quit the FTP session.

12. Verify that each updated expansion module has the correct firmware version.

Issues fixed in GN280R008-04/GT280R008-04

- Enabled retrieval of drive logs from Seagate drives.
- 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.

Known issues and workarounds

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

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

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

Workaround: No workaround necessary.

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

Workaround: Use the CLI.

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

Workaround: No workaround necessary. This is a corner case scenario with a low priority.

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-chap-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 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.

Effective date

December 2020