



Upgrading Scalar i500 Tape Drive Firmware

These instructions describe how to upgrade tape drive firmware via the library Web client using a firmware image file. For instructions on autoleveling, see the library user's guide or online help.

Before upgrading tape drive firmware, read the Compatibility Matrix in the *Scalar i500 Release Notes*, 6-01378-xx, to determine the tape drive firmware compatible with your library firmware. To identify the tape drive firmware currently installed on your tape drives, access the library Web client and view the System Information report (**Reports > System Information**).

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Obtaining Tape Drive Firmware

Required item: Computer with Internet access

- 1 Contact Quantum Support to request the firmware upgrade file.
- 2 When you receive the firmware upgrade file, place it in a known location on your computer.

Note: You may receive the firmware file in a zipped (.zip) format. If so, extract the firmware file from the .zip file.

Note: For HP LTO tape drives, you may receive two versions of drive code in the same bundle: .E and .FRM. **Make sure to use the .E version** for the upgrade process described here. (The .FRM version is used by HP Library and Tape Tools, a host-based drive management application, and should NOT be used here.)

Upgrading Tape Drive Firmware

To upgrade tape drive firmware, you can download an image file directly to a tape drive using the library Web client. The firmware upgrade can take up to 40 minutes (less if the upgrade is performed using Fibre Channel I/O blades).

Because tape drives can be updated in parallel, updating multiple tape drives does not require more time than updating a single tape drive. You can upgrade multiple tape drives at one time if they are of the same tape drive type (for example, LTO-3) and interface type (for example, SCSI).

Caution: Since tape drives restart after a firmware upgrade, make sure that tape drives are unloaded before upgrading firmware.

Note: This operation must not be performed concurrently by multiple administrative users logged in from different locations. You can access the appropriate Web client screens, but you cannot upgrade tape drive firmware while another administrative user is performing the same operation

- 1 Stop any processes on the host application that are communicating with the tape drive.
- 2 Unload tape cartridges from all tape drives for which you are upgrading firmware.
- 3 Access the library using the Web client.
- 4 From the **Tools** menu, select **Drive Operations**.
The **Tools - Drive Operations** screen displays.
- 5 Select **Update tape drive firmware using a firmware image file** and click **Next**.
The **Update Drive Firmware By Image** screen displays.
- 6 Do one of the following:
 - If your library contains different drive types (for example, LTO-3 and LTO-4) and/or different interface types (for example, SCSI and Fibre Channel), continue with [Step 7](#).
 - If your library contains tape drives of the same drive and interface type (for example, LTO-4/SAS), continue with [Step 8](#).
- 7 Select the tape drive and interface type you need to upgrade and click **Next**.
The **Update Drive Firmware By Image** screen displays. This screen lists the location, installed firmware, and status of each tape drive of the selected interface type.
- 8 Select the tape drive(s) you want to upgrade and click **Next**. (You can update multiple drives at the same time.)
The **Update Drive Firmware By Image** screen displays.

Note: If there is more than one page of tape drives, use the **Page 1 of x** arrows to view the additional tape drives.

Note: Bold column headings in the table can be sorted. For example, selecting the **Firmware** column heading will sort by firmware version.

9 Click **Browse**.

The **Choose File** dialog box displays.

10 Locate the correct firmware file that you downloaded in [Obtaining Tape Drive Firmware](#) on page 1 and click **Open**.

11 Click **Apply**.

A caution dialog box displays, noting that the affected partition will be taken offline.

12 Click **OK**.

Downgrading IBM LTO-4 Tape Drive Firmware

IBM LTO-4 drive brick firmware PGA3 (82FB) and newer contains special security restrictions that prevent downgrading this firmware to previous versions that are not FIPS-compliant [for example, PGA1 (77BE)].

If you need to downgrade LTO-4 tape drive firmware from level 82FB or higher to level 77BE or lower, contact Quantum Support for instructions and assistance.

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