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# HPE StoreEver 1/8 G2 Tape Autoloader and MSL Tape Libraries Ultrium 6250 LTO-6 Tape Drive Firmware Versions 23DW and 35GW Release Notes

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## Description

This release includes updated tape drive firmware for Ultrium 6250 tape drives in HPE StoreEver 1/8 G2 Tape Autoloaders and MSL2024, MSL4048, MSL6480, MSL8048, and MSL8096 Tape Libraries.

The tape drive firmware can be updated through any of the following methods:

- Remote management interface (RMI)
- Operator control panel (OCP)
- HPE Library and Tape Tools (L&TT)

Tape drive firmware versions: 25DW (FC) and 35GW (SAS)

## Update recommendation

Update recommendation: Recommended

## Supersede information

Supersedes: All previous versions of tape drive firmware.

## Product models

This release applies to the following product models:

- HPE StoreEver 1/8 G2 Tape Autoloader with an Ultrium 6250 SAS or FC tape drive
- HPE StoreEver MSL2024 Tape Library with one or more Ultrium 6250 SAS or FC tape drives
- HPE StoreEver MSL4048 Tape Library with one or more Ultrium 6250 SAS or FC tape drives
- HPE StoreEver MSL6480 Tape Library with one or more Ultrium 6250 SAS or FC tape drives
- HPE StoreEver MSL8048 Tape Library with one or more Ultrium 6250 SAS or FC tape drives
- HPE StoreEver MSL8096 Tape Library with one or more Ultrium 6250 SAS or FC tape drives

## Languages

- English (American)
- English (International)

## Operating systems

This release is not OS-dependent.

## Compatibility notes

When an MSL6480 has a Data Verification partition that includes both LTO-6 and LTO-7 tape drives, the LTO-6 tape drives must have 23DW, 35GW, or newer firmware installed.

## Enhancements

The following enhancements are part of this firmware release:

- New error code 0x50b4 reported for a Space to EOD failure if cartridge memory (CM) indicates no valid EOD on tape.
- Improved tape alert reporting for additional types of load and read failures.
- Improved supportability by enhancing internal drive logging.

- Improved supportability by enhancing the VERIFY command.
  - Added Immediate mode support on primary port when VTE=1.
  - Added Verify by Filemarks (VBF) bit.
- Upgraded the OpenSSL version to 1.0.1p to include the latest security fixes.
- A TapeAlert is now reported for a previously undetected CM problem.

## Fixes

The following issues in version 253W and 354W of this tape drive firmware have been fixed in version 23DW and 35GW:

- Reduced the occurrence of a class of write failure (0x5093) events.
- Fixed a corner case Secure Manager LUN assignment issue.
- Corrected the reporting of product IDs on Inquiry Page CCh.

## Known issues

- Firmware versions 23DW and 35GW generate a TapeAlert flag when LTO-4 WORM media is loaded. The TapeAlert flag indicates that the media has a corrupt cartridge memory. This TapeAlert flag can be ignored because the LTO-6 drive does not support writing to LTO-4 media. The media can still be read.

## Installation instructions

### MSL6480 RMI

1. Download current firmware using L&TT or from the Hewlett Packard Enterprise support website: <http://www.hpe.com/support/storage>
2. Log into the RMI as the administrator user.
3. Navigate to the **Maintenance > Software Upgrades > Drive Firmware** screen. The tape drives are organized by drive type.
4. Click **Browse**, and then select the file from the local computer.
5. Click **Submit**.

### MSL6480 OCP

1. Download current firmware using L&TT or from the Hewlett Packard Enterprise support website: <http://www.hpe.com/support/storage>  
Copy the firmware file to a USB flash drive.
2. Log into the OCP as the administrator user.
3. Insert the USB flash drive into the USB port on the front of the library.  
The library detects the USB drive.
4. Select the firmware file.
5. Click **Start Upgrade**.

### 1/8 G2 Tape Autoloader, MSL2024, MSL4048, MSL8048, or MSL8096 RMI

1. Download current firmware using L&TT or from the Hewlett Packard Enterprise support website: <http://www.hpe.com/support/storage>
2. Log into the RMI as the administrator user.

3. In the **Support: Firmware** page, select the tape drive, browse to the location of the tape drive firmware file, and click **Update**.
4. Repeat step 3 to update firmware for additional tape drives in the library.

### 1/8 G2 Tape Autoloader or MSL2024 OCP

1. Download current firmware using L&TT or from the Hewlett Packard Enterprise support website: <http://www.hpe.com/support/storage>  
Copy the firmware onto the USB flash drive.
2. Insert the USB flash drive into the USB port on the back of the autoloader or library.
3. From the Home screen, press **Next** until the screen displays **Support**. Press **Enter** to select.
4. Press **Next** until the screen displays **Drive FW upgrade**. Press **Enter** to select.
5. Enter the administrator password if prompted.
6. Press **Next** until the screen displays the filename of the tape drive firmware file on the USB drive. Press **Enter** to select the firmware file.
7. If the upgrade failed, press **Enter** to display the error code and message describing the cause of the failure.
8. When the upgrade is complete, remove the USB flash drive from the USB port.

### MSL4048, MSL8048, or MSL8096 OCP

1. Download current firmware using L&TT or from the Hewlett Packard Enterprise support website: <http://www.hpe.com/support/storage>  
Copy the firmware onto the USB flash drive.
2. Insert the USB flash drive into the USB port on the back of the library.
3. From the **Support** menu, select **FW Upgrade > By USB**.
4. Enter the administrator password if prompted.
5. Select the tape drive as the target for the upgrade, and select the filename of the firmware. Click **Upgrade**.
6. Repeat step 4 to update firmware for additional tape drives in the Library.
7. When the upgrade is complete, remove the USB flash drive from the USB port.

## Related information

The latest documentation is available in the Storage section of the Hewlett Packard Enterprise Information Library:

<http://www.hpe.com/info/enterprise/docs>

To find documents for this product:

1. In the Products and Solutions pane, select **StoreEver Tape**.
2. Select the types of documents and your language.
3. In the **StoreEver Tape** pane, select your autoloader or library.

Available documents include:

- *HPE StoreEver 1/8 G2 Tape Autoloader Getting Started Guide*: Illustrated installation instructions
- *HPE StoreEver MSL2024 Tape Library Getting Started Guide*: Illustrated installation instructions
- *HPE StoreEver MSL4048 Tape Library Getting Started Guide*: Illustrated installation instructions
- *HPE StoreEver MSL6480 Tape Library Getting Started Guide*: Illustrated installation instructions
- *HP StoreEver MSL8048 and MSL8096 Tape Libraries Getting Started Guide*: Illustrated installation instructions

- *HPE StoreEver 1/8 G2 Tape Autoloader User and Service Guide*: Detailed information and instructions
- *HPE StoreEver MSL2024, MSL4048, MSL8048, and MSL8096 Tape Libraries User and Service Guide*: Detailed information and instructions
- *HPE StoreEver MSL6480 Tape Libraries User and Service Guide*: Detailed information and instructions

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