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## **HPE Storage MSL6480 Tape Library Version 6.70 Firmware Release Notes**

Part Number: 20-STG-MSL6480-670RN-ED2  
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Edition: 2

# HPE Storage MSL6480 Tape Library Version 6.70 Firmware Release Notes

## Abstract

This document provides information about enhancements and fixes to the firmware for the HPE Storage MSL6480 Tape Library.

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## Table of contents

- Description
  - Update recommendation
  - Supersedes information
  - Product models
  - Languages
  - Compatibility notes
  - Accessing the compatibility matrix
  - Enhancements
  - Fixes
  - Known issues and workarounds
  - Installation instructions
    - RMI installation instructions
    - OCP installation instructions
  - Related information
  - Documentation feedback

## Description

This release includes updated firmware for the HPE Storage MSL6480 Tape Library. This firmware can be updated from the library remote management interface (RMI) or operator control panel (OCP).

### Library firmware version

6.70

### Subtopics

[Update recommendation](#)

[Supersedes information](#)

[Product models](#)

[Languages](#)

[Compatibility notes](#)

[Accessing the compatibility matrix](#)

[Enhancements](#)

[Fixes](#)

[Known issues and workarounds](#)

[Installation instructions](#)

[Related information](#)

[Documentation feedback](#)

## Update recommendation

Update Recommendation: Recommended.

## Supersedes information

Supersedes: All previous firmware versions.

## Product models

This release applies to all HPE Storage MSL6480 Tape Libraries.

## Languages

Languages supported for this release:

- English
- Japanese for the library RMI

## Compatibility notes

This version of MSL6480 firmware is compatible with:

- HPE Library and Tape Tools (L&TT) standalone version 6.6 and later
- Command View for Tape Libraries (Command View TL) version 6.6 build 122 and later
- TapeAssure Advanced (license installed and used with Command View TL 6.6 build 122 and later)
- Data Verification (license installed and used with Command View TL 6.6 build 122 and later)

### Bar code label length

The industry standard length of bar code labels is eight total characters, including the media ID. Because of this, Hewlett Packard Enterprise tape libraries and associated application software (such as Command View TL, and other backup applications) are tested by Hewlett Packard Enterprise using eight character bar code labels. Although the MSL6480 can read labels with more than eight characters, some applications might not operate correctly with these labels. For compatibility with other libraries and with applications, Hewlett Packard Enterprise recommends using eight character bar code labels when possible.

### MSL Encryption Kit token backup file format change

Firmware version 4.30 changed the MSL Encryption Kit token backup file format and file extension. Hewlett Packard Enterprise recommends creating a token backup file after loading 4.30 or later firmware. The new token backup file format is compatible with other MSL tape libraries.

### When changing firmware

Because each firmware revision contains new features, some configuration settings are not retained when earlier firmware versions are loaded. Hewlett Packard Enterprise recommends against downgrading firmware unless instructed to do so by a support engineer. Always verify configuration settings after installing firmware.

## Accessing the compatibility matrix

### Procedure

1. Go to <https://www.hpe.com/Storage/TapeCompatibilityMatrix>.
2. On the Welcome to SPOCK page, click Sign in/Register.
3. Log in with your existing HPE account or create an account.
4. From the SPOCK home page, expand the plus sign (+) next to Explore HPE Storage Tape Solutions.
5. Click HPE Storage Tape Solutions Documents, and then select the compatibility matrix.

## Enhancements

The following enhancements are included in this firmware version:

- Multi-Factor Authentication capability (can be enabled on a per-user basis)
- Vault partitions which can be created to store tapes in an air-gapped location within the library
- RMI security increased by removing non-SSL access - only HTTPS is now supported for RMI connections
- Rebranded HPE StoreEver product name to HPE Storage
- Firmware version is displayed in the library error events

- Updated Japanese translation in the RMI
- Open source packages updated for security enhancements:
  - `busybox 1.37.0`
  - `lighttpd 1.4.76`
  - `ntp 4.2p18`
  - `openldap 2.5.19`
  - `rsyslog 8.2406.0`
  - `zlib 1.3.1`
  - `php 8.4.x`
  - `openssl 3.0.16`
- Certificate wizard supports multiple IP addresses in the SAN field as CSV values
- Improved REST interface security

## Fixes

The following fixes are included in this firmware version:

- An issue where the robotic move counter may be inaccurate is corrected
- Partition names are properly displayed in the Status > Partition Map of the RMI when filtered by drive
- Updated SMTP email alerts to use an HTTPS link for the RMI
- The `system.log` no longer truncates for the longer domain names
- Event 4089 "Auto calibration of one or more modules failed" may occur erroneously when running auto-calibration
- Added height adjustment recoveries on media moves from the drives
- INFO event tickets are now properly recorded in the `Infolog.txt` log file

## Known issues and workarounds

- **Issue:** Pulling on the magazine handle while the library is unlocking the magazine can damage the library.

**Workaround:** When opening a magazine, wait until the OCP or RMI says that the magazine is unlocked before attempting to remove it.

- **Issue:** Command View for Tape Libraries (Command View TL) Data Verification tests yield "Test Incomplete" status after one of the following occurs:
  - Modifying the DVP partition
  - Adding, removing, or replacing a tape drive
  - Rebooting the library or drives, or taking a drive off line

**Workaround:** Stop and restart the Command View TL DV service.

1. Stop the Command View TL DV service.
  - a. In Command View TL, open the Library page.

- b. Select the library that is configured for Data Verification.
  - c. From the library screen, select Data Verification.
  - d. Click Stop for the library to stop the DV service.
2. Use Command View TL or the library RMI or OCP to remove any media from drives assigned to the DVP partition.
  3. In the Command View TL Data Verification screen for the library with Data Verification configured, start the DV service.

The DV service will rescan the slots and drives assigned to the DVP partition and restart the DV service.

- **Issue:** When using the Edge compatibility mode on some Internet Explorer 11 versions, the RMI logs out after starting a drive or library firmware update.

**Workarounds:**

- Log back in to the RMI and let the firmware upgrade complete. When updating drive firmware, you can log in immediately. When updating library firmware, you can log in when the library has completed initialization.
- Use a different browser when upgrading firmware from the RMI.

## Installation instructions

[RMI installation instructions](#)

[OCP installation instructions](#)

### Subtopics

[RMI installation instructions](#)

[OCP installation instructions](#)

## RMI installation instructions

### Procedure

1. Log in to the RMI as the administrator user.
2. From the Maintenance > Firmware Upgrades > System Firmware screen, browse to the location of the library firmware file and then click Upload.

## OCP installation instructions

### Procedure

1. Copy the firmware file to a USB flash drive.
2. Log in to the OCP as the administrator user.
3. Insert the USB flash drive into the USB port on the front of the library.
4. Navigate to the Maintenance > Firmware Upgrade > System Firmware screen, and then follow the prompts to complete the firmware upgrade.

## Related information

The latest documentation is available on the Hewlett Packard Enterprise Support Center at <https://www.hpe.com/support/hpesc>.

To find documents for this product:

1. Enter **MSL6480** in the search bar.
2. Choose the MSL6480 from the product list.
3. Select the Documents tab.
4. Type the last part of the document name, for example **Getting Started** in the search box.

Available document are:

- HPE Storage MSL6480 Tape Library Getting Started Guide
- HPE Storage MSL6480 Tape Library User and Service Guide
- HPE Storage MSL Tape Libraries Encryption Key Server Configuration Guide
- HPE Storage Tape Libraries LTO-7+ Path Failover User Guide

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