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## **HPE StoreEver 1/8 G2 Tape Autoloader and MSL2024 G3 Tape Library Firmware Versions 6.20 and 8.10 Release Notes**

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# HPE StoreEver 1/8 G2 Tape Autoloader and MSL2024 G3 Tape Library Firmware Versions 6.20 and 8.10 Release Notes

## Abstract

This document provides information about enhancements and fixes to the firmware for the HPE StoreEver 1/8 G2 Tape Autoloader and the MSL2024 G3 Tape Library.

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## Description

This release includes updated firmware for the HPE StoreEver 1/8 G2 Tape Autoloader and MSL2024 G3 Tape Library.

Table 1. Firmware versions

Product	Firmware version	Compatible robotics firmware version
1/8 G2 Tape Autoloader	6.20	2.90n
MSL2024 G3 Tape Library	8.10	3.60e

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## Update recommendation

Update recommendation: Recommended

## Supersede information

Supersedes: These versions of autoloader and library firmware supersede ALL previous versions. Older firmware versions are not supported in all libraries and autoloaders.

## Product models

This release applies to the following product models:

- HPE StoreEver 1/8 G2 Tape Autoloader
- HPE StoreEver MSL2024 G3 Tape Library

## Operating systems



This release is not OS-dependent.

## Languages

- English
- Japanese for the library RMI

## Compatibility notes

This version of 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 from and used with Command View TL 6.6 build 122 and later)

## 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 Hewlett Packard Enterprise support engineer. Always verify configuration settings after installing firmware.

## MSL Encryption Kit token with odd-numbered PIN length

When using firmware version 2.50, 4.40, or newer revisions with the Encryption Kit, any key server tokens set with an odd number of characters for the PIN will not be totally backward compatible in autoloaders or libraries with code revisions 2.10, or 4.00. In those cases, a token in an autoloader or library with 2.10, or 4.00 firmware revisions will be able to accept the PIN for the token and access keys on the token, but the user will not be able to change the PIN on the token, save the keys to a file, or restore the keys from a file until the autoloader or library firmware is upgraded. To ensure complete compatibility, always upgrade to the latest version of 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

- Added ability to use the special characters `+ - _ { } [ ] | < > # * $ ! ( ) !` in KMIP user passwords to allow for greater password complexity.
- Increased the maximum key size for KMIP keys to 8192 to better support newer KMIP servers.

## Fixes

- Increased timeout for sending email alerts through SMTP which could result in failure to send all requested library alerts.
- Increased buffers to avoid controller hangs when certain RMI pages are loaded while the RMI is in Japanese language mode.
- Fixed an issue that could cause the network to hang when using IPv6 static addressing.
- Corrected an issue which could allow a saved configuration file to be restored while drive encryption is turned on.
- Cartridge memory in cleaning tapes is now properly updated with LTO-8 and LTO-9 drives.
- Fixed an issue where a manual move of media to a drive from the RMI during an LTO-9 tape initialization could cause the 1/8 G2 autoloader to switch into sequential mode.
- Corrected an issue where a backslash was not being correctly converted back to a slash on a redirected URI.
- LTO-9 SAS drives were not properly displaying the normal temperature range on the drive status page.
- Rectified an issue with memory deallocation when sending proactive support tickets that causes the RMI to become unresponsive.

## Known issues and workarounds

- **Issue:** When SNMP is enabled, this firmware version generates an SNMP trap and a library informational event once every 24 hours at midnight, based on the library date/time. This event is the result of a periodic maintenance check of the network interface chip (NIC) by the library controller. A similar event is generated if the network cable is removed and reinserted.

**Workaround:** This trap and event can be ignored and have no effect on library operations.

- **Issue:** When enabling KMIP, in a rare condition the system might display error `HE: system error, memory at address zero violated. Code: D7 E1`.

**Workaround:** Reboot the library. KMIP will be enabled after the reboot.

- **Issue:** The RMI does not allow connections although the autoloader or library can still respond to standard ping commands, the OCP is functional, and the communication with the tape drives operates normally. The only backup operations that might be affected are those configured for KMIP configuration.

This is a rare condition, but if the autoloader or library gets into this state while it is configured for KMIP encryption, backup operations can fail because KMIP keys cannot be retrieved.

The check condition related to this KMIP failure is:

Check Condition `0x02/0x7463(ASCQ=0x7463)`

**Workaround:** Re-seat the Ethernet cable attached to the library controller. No autoloader or library reboot is needed.

## Installation instructions

[To upgrade firmware from the RMI](#)

[To upgrade firmware from the OCP using a USB flash drive](#)

[To upgrade firmware using L&TT](#)

To upgrade firmware using CVTL, see the [HPE StoreEver Command View for Tape Libraries User Guide](#).

## Subtopics

[To upgrade firmware from the RMI](#)

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## To upgrade firmware from the RMI

### Procedure

1. Download current firmware using L&TT or from the Hewlett Packard Enterprise support website: <https://www.hpe.com/support/storage>.
2. Log into the RMI as the administrator user.
3. In the Support > Firmware page, browse to the location of the firmware file.
4. Click Update.

## To upgrade firmware from the OCP using a USB flash drive

### Procedure

1. Download current firmware using L&TT or from the Hewlett Packard Enterprise support website: <https://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 device.
3. From the Home screen, press Next until the screen displays Support. Press Enter to select.
4. Press Next until the screen displays Autoloader FW upgrade or Library FW upgrade. Press Enter to select.
5. Enter the administrator password if prompted.
6. Press Next until the screen displays the filename of the 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.

## To upgrade firmware using L&TT

### Procedure

1. Download and install the current version of L&TT from the Hewlett Packard Enterprise support website: <https://www.hpe.com/support/storage>.
2. Download current firmware using L&TT.
3. Click the device to update in the device list.
4. Click Firmware on the main toolbar
5. On the Update Firmware tab, select the box next to each device for which you want to update firmware.

If firmware is currently available for that device, it is shown in Firmware File in the File Selection section of the screen.

6. Click Start Update at the bottom of the screen to begin the update.

## Related information

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

Available documents are:

- HPE StoreEver 1/8 G2 Tape Autoloader Getting Started Guide
- HPE StoreEver MSL2024 Tape Library Getting Started Guide
- HPE StoreEver 1/8 G2 Tape Autoloader User and Service Guide
- HPE StoreEver MSL2024, MSL4048, MSL8048, and MSL8096 Tape Libraries User and Service Guide

## Documentation feedback

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