

# IBM LTO-6 Firmware Version K4M0 (FH) and K4M1 (HH) Release Announcement

August 2019

## Preface

This Product Information Bulletin announces the release of IBM LTO-6 firmware updates K4M0 for full-height (FH) drives and K4M1 for half-height (HH) drives. These updates are intended, among other things, to increase overall reliability, improve tape handling, further reduce any possibility of error, and provide continued enhancements to diagnostic capabilities.

## Models Affected

This firmware affects all IBM LTO-6 drives, both FH and HH.

## Upgrade Considerations

All systems running code IBM LTO-6 JAX0/JAX1 can be upgraded to LTO-6 K4M0/K4M1.



**CAUTION:** To prevent data corruption, verify that all active backup and recovery jobs to the NEO tape library are completed prior to performing the upgrade.

---

## Downgrades

Downgrades are not supported.

## Functional Improvements (Reduce Permanent Errors)

Firmware fixes included with the K4M0 FH and K4M1 HH updates:

- Fixed Hang in Rewind command.
- Queued TM might dispatch twice and panic.
- Some log pages (for example, 30h) return zeros to library.
- Allow CM MAM page to be created at Hold position.
- Not create Init Data CM pg in unprot area.
- Flush before Read Attribute of VWJ attribute.
- Closed turbo fail race.
- Improved Mode Sense descriptors.
- Fixes for bugs found in new MP/LP/IP tests.
- SCD 0 with solid amber is displayed in normal operation.
- PAN\_LED\_ACTION is not called in Tape\_Transport\_Error.
- Deferred error should be reported earlier.

- Limited size of request for LUN1 read/write buffer commands.
- Off-track to different partition caused INCONSIST\_WRITEPASS.
- Used latest WP to continue read ERP for OTF rewrite DS.
- Appended thread count field into engineering log in dump.
- Internal error (FSC 405E) in read.
- MED\_PERM\_DS\_AFTER\_TGT\_DS for write perm DS.
- Unexpected wrap turn when EOW detected by STOP\_DEST.
- MCP: update WDT before validate image in code update.
- INCONSISTENT\_DSNUM for fermi-like wrap turn.
- Fixed inconsistent if condition.
- Allow write append at write perm on worm.
- C2 memory error on read – need ERP.
- Stop TPM at interrupt missing detection.
- MCP: missing interrupt (due to corrupt UBIFS kernel printk).
- FSC6000 at append write on worm.
- Change FSC 2E1B (srv excessive head skew).
- Panic when entering power saving mode.
- Mount hang when cartridge pulled out.
- Motor stall during unspool.
- Panic due to double callback for SRV\_Unthread.
- Fixed Hang when unthreading the tape.
- Workaround for stuck FRS interrupts.
- Fixed idle\_c timer usage.
- ADI improvements.

## Downloads

Firmware update codes IBM LTO-6 K4M0 (FH) and K4M1 (HH) are available for download for supported NEO users with active software entitlement agreements. Go to the Overland-Tandberg Customer Support Portal by navigating to the Manage Products page: <http://support.overlandstorage.com/support/neo-series.htm>.