

IBM LTO-7 Firmware Versions KAH0 (FH) and KAH1 (HH) Release Announcement

January 2020

Preface

This Product Information Bulletin announces the release of IBM LTO-7 firmware updates KAH0 for full-height (FH) drives and KAH1 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

These firmwares affects all IBM LTO-7 drives, both FH and HH.

Upgrade Considerations

All systems running code IBM LTO-7 K4K0/K4K1 can be upgraded to LTO-7 KAH0/KAH1.



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 KAH0 FH and KAH1 HH updates:

General Drive Improvements

- Fix drive panic during a CM Update
- Multiple PEWZ errors on non-buffered writes
- Fix queue hang/race on Erase
- Allow CM MAM page to be created on WORM cartridges
- MTR fails with a 2E05
- FSC 7226 on READ
- FSC 7076, 7060 on READ and positioning reads (LOCATE and SPACE)
- Write Attribute fails with a check condition
- Change FSC 2E1B from media error to hardware
- Drive might not complete the Archive unload correctly
- FSC 7225 on a write append

- Timeout on a LOAD
- Drive Panic during error recovery
- FSC 7420 on WRITE
- FSC 7340 on WRITE
- Mode Page 11 clearing was not correct
- Drive Panic while reading a marginal tape
- Aborted Write command caused FSC 6010
- FSC 6000 on a READ at BOP
- FSC 7060 on READ
- FSC 6353/7076 on READ
- Improve transfer length and overlap handling to avoid a drive PANIC
- LTO-6 MP media is not defined in ADC Device Server Configuration mode page
- FSC 7076 error was reported after reading EOD at EOW
- Improve SCD display for multi-port handling
- Update VHF tape motion when formatting
- Drive fails with servo error FSC 7855
- FSC 7060 on EOT_READ
- LP3 pass count in CM was incorrect by 2 step unload
- 7125 on READ
- Fix fill bytes in Task Management response frame
- Drive hang on WRITE
- Drive Panic while rewinding after write
- 7067 on Write
- Improve MRR calculation to better detect FSC 5334
- Improve update time when writing to the CM
- FSC 78E3 on recheck unthread fail
- Optimize servo channel AGC for Eldora drives
- Added tension ERP to improve write failures
- READ timeout at BOW dataset
- 6353 failure on rewind
- 7830 with older Generation cartridges on read
- 6353 on SPACE or LOCATE
- FSC 7245 on READ returned unexpectedly
- Stuck tape required power cycle
- FSC 7095 on READ
- WRITE command timeout
- SPACE to filemark timeout
- FSC 78C1 on tape motion command after power saving unspool
- FSC 7170 on READ
- FSC 7060 on READ Change reporting of open servo readers
- Drive failures for FSC 2E1B
- Unload fails with a 2E13
- FSC 7265 on WRITE
- Change park position to reduce FSC 2E03

- Update timeouts for the ERASE command
- Vibration mode counter in LP3Eh

Encryption Improvements

- Fix Drive hang on multi-burst write @BOP w/PEWZ

Library Drive Improvements

- Watchdog timeout hang in interrupt with malformed packets
- Library did not handle interface messages correctly

SAS Drive Improvements

- SAS: Inquiry page 90h should have 2 descriptors not 1
- SAS: Drive Panic due to poor link quality

FC Drive Improvements

- Fix multiple PEWZ check conditions on non-buffered writes
- FC Host unable to detect drive after reset
- FSC 7475 on WRITE append

Downloads

Firmware update codes IBM LTO-7 KAH0 (FH) and KAH1 (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>.