



Release Notes

Product	Linear Tape File System (LTFS) for Windows V2.2.1 to V2.4.0.2
Date	March 2018

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Introduction

These release notes apply to the Quantum Linear Tape File System (LTFS) for Windows software version 2.4.0.2.

Terms

Types of changes:

- **Enhancements** - A given feature or algorithm of the product has been enhanced, to allow wider usability and/or to provide greater robustness.
- **New Functionality** - A new piece of functionality is added. As this is a new release, this is the only type of change described in this document.
- **Bug Fix** - Fixes a bug in the software.
- **Known Problems** – Issues seen in test that have not been resolved

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Compatibility

LTFS for Windows compatibility requirements:

- Unrecognized tags shall be ignored
- Older major versions of LTFS are not allowed to update volumes written by later major versions of LTFS. The new XML tags could not be properly handled by older versions impacting compatibility.
- As per traditional LTO philosophy, use of the CM to enhance performance is optional and not required. This refers to the Volume Coherency Information (VCI) attribute, which is used to determine where the latest index was written on the volume - whether any data was written after the latest index was written. It's implied, but not required, that the LTFS application should handle a *broken* CM.

Description of Changes

Features

This release contains the following enhancements:

- Upgraded bundled libxml2 version from 2.7.8 to 2.9.4.
- Support LTFS format specifications 2.4.0.
- Support LTO-8 tape drive.
- Support Windows 10.
- Supported initialized LTO-8 Type M cartridge

Bug Fixes

This release contains the following Bug Fixes

- The Drive Serial Number was not displayed correctly. Instead of showing the 10-byte drive serial number, just the last three bytes of firmware version were shown.
- LTFS 2.4.0.1 with an LTO-7 drive would not mount an LTO-5 tape with an LTFS volume.
- The format option was disabled when the LTFS volume that is currently mounted did not have any free space left. Since the format option was disabled there was no way to re-initialize the cartridge from the context menu.

Known Problems

Notes

This release contains the following low-level issues that users should be aware of:

- The LTFS Configuration will not show the drive until the firmware was upgraded to HB83, yet the only place the upgrade requirement is documented is buried in a log file. Make sure LTO-8HH Drive code is at least at HB83.
- The Rollback button is enabled after loading an inconsistent LTFS volume, even though LTFS will not be able to provide any rollback points. This will be disabled in a later LTFS version
- The Format, Check and Rollback buttons are enabled after loading a write-protected LTFS volume that is inconsistent, even though the drive can't perform these functions anyway. These will be disabled in a future LTFS version
- When the Rollback points are displayed, the first generation is automatically selected. There is a possibility of losing all the data on the tape if a user mistakenly clicks on the OK button and on the OK button of the warning message that follows. The default selection will be changed in a future LTFS release.
- The IBM SDE Version being displayed in the Details dialog box is not consistent with the other versions being returned. The detail panel launched from the drive property is for engineering use so this panel shows the version of binary "module".
- If an attempt is made to create a folder on a write protected tape, the error reported is vague and indicates a Catastrophic failure.
- If an attempt is made to create a folder on a Read Only LTFS volume (LTO-5 tape in an LTO-7 drive), the error reported indicates the "File is too large"
- Windows File Explorer crashes when attempting to create a folder on a full LTFS Volume. LTFS doesn't crash and data is not lost in this situation
- The LTFS application will collect drive dumps under a number of situations where expected conditions are seen. This does not interfere with operation of the application.

Contacting Quantum

More information about this product is available on the Service and Support website at www.quantum.com/support. The Service and Support Website contains a collection of information, including answers to frequently asked questions (FAQs). You can also access software, firmware, and drivers through this site.

For further assistance, or if training is desired, contact Quantum:

Quantum Technical Assistance Center in the USA:	+1 800-284-5101
For additional contact information:	www.quantum.com/support
To open a Service Request:	www.quantum.com/osr

For the most updated information on Quantum Global Services, please visit: www.quantum.com/support