



# Release Notes

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| <b>Product</b> | Linear Tape File System (LTFS)<br>V2.4.0.2 for Linux and Mac with Mac GUI<br>1.1.6 |
| <b>Date</b>    | February 2019  |

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## Introduction

These release notes apply to the Quantum Linear Tape File System (LTFS) Mac and Linux software version 2.4.0.2. The Mac version includes Mac GUI 1.1.6.

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## 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.
- **Bug Fix** - Fixes a bug in the software.

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## Compatibility Requirements

LTFS version **2.4.0.2** compatibility requirements include:

- 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 forward 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 - and 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.

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## New Features and Enhancements

LTFS version 2.4.0.2 new features and enhancements include:

- Support LTFS Format 2.4 specification
- Support for M8 cartridges.

## Resolved Issues

This section provides the LTFS version 2.4.0.2 resolved issues.

| Change Request Number | Service Request Number | Resolved Issue/Description   |
|-----------------------|------------------------|--|
| 58281                 |                        | ltfsck deep and full recovery options are unable to recover a tape that was in a drive that was power cycled while writing |
| 66981                 |                        | LTFS is generating the wrong file when attempting a Quantum Model-B drive dump   |

## Known Issues and Limitations

This section provides the following:

- [LTFS Version 2.4.0.2 Known Issues](#)
- [LTFS Version 2.4.0.2 Known Limitations](#)

### LTFS Version 2.4.0.2 Known Issues

This section provides the LTFS version 2.4.0.2 known issues.

| Change Request Number   | Service Request Number | Known Issue/Description   | Workaround |
|-------------------------|------------------------|---|------------|
|                         |                        | force_mount_no_eod option only works if IP and DP EODs physically exist on the tape but are marked invalid in the CM. | N/A        |
| 66857                   |                        | Rollback points every 15 to 20 seconds when sync time is set to max.  | N/A        |
| 69805                   |                        | LTFS 2.4.0.2 does not support HP branded LTO drives   | N/A        |
| <b>Notes for Linux:</b> |                        |   |            |
|                         |                        | Need ATTO H644 linux driver version 2.32 for deep recovery to work.   | N/A        |

| Change Request Number | Service Request Number | Known Issue/Description   | Workaround |
|-----------------------|------------------------|---|------------|
|                       |                        | Itfs doesn't immediately recognize that a volume is write-protected and allows the creation of folders and files. Volumes becomes read-only when Itfs needs to flush data to tape.  | N/A        |
| <b>Notes for MAC:</b> |                        |   |            |
|                       |                        | If a power loss to a drive occurs during writes, the drive will appear twice in the GUI after the refresh list button is clicked.   | N/A        |
|                       |                        | OSX fuse allows mounting of an Itfs volume on a non-empty folder  | N/A        |
|                       |                        | If a write-protected volume is mounted from the command line, Itfs doesn't immediately recognize that the volume is write-protected and allows the creation of folders and files. Volumes becomes read-only when Itfs needs to flush data to tape | N/A        |

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### LTFS Version 2.4.0.2 Known Limitations

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This section provides the LTFS version 2.4.0.2 known limitations. The limitations are as follows:

- Logical block protection (i.e., -o scsi\_lbprotect=on) is unsupported.
- Key manager interface functions are unsupported.
- ST devices are unsupported.  
Use SG devices instead.
- scsi\_append\_only\_mode option is only supported with IBM drives and not with Quantum Model-B drives.

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## Contacting Quantum

More information about this product is available on the Service and Support website at [www.quantum.com/support](http://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:

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|--|--|
| <b>Quantum Technical Assistance Center in the USA:</b> | +1 800-284-5101  |
| <b>For additional contact information:</b>             | <a href="http://www.quantum.com/support">www.quantum.com/support</a> |
| <b>To open a Service Request:</b>                      | <a href="http://www.quantum.com/osr">www.quantum.com/osr</a>         |

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