Release Notes

Product	Scalar LTFS
Version	2.4_GAA.12639
Date	November 2015

Contents

Purpose of This Release

The Scalar LTFS v2.4 release notes address resolved and currently known issues as well as new features and enhancements. These notes also provide drive and library firmware compatibility information.

New Features and Enhancements

Scalar LTFS 2.4 includes:

- Volume Groups for media management

- File spanning between multiple media

- ACLs (Access Control Lists) for remote authentication using CIFS mounts

- Scratch media pool for writing to blank media automatically when needed

- Volume Group Utilities that allow for repair, safe repair and replication (tape copy)

- Job management using the Job Queue

SLTFS 2.4 FAQ

Quantum has generated a Frequently Asked Questions document pertaining to the functionality changes from SLTFS 2.3 to 2.4. This document highlights how new features work compared to previous versions and explains what features were moved or removed completely in 2.4. The SLTFS 2.4 FAQ document is available on Quantum.com.

Compatibility and Support

The following table shows the minimum drive and drive firmware compatibility with this release of Scalar LTFS. This information is current as of this product release. For the most up to date information on Quantum Global Services, please visit: http://www.quantum.com.

Drives			Library Firmware - Minimum Version		
Type	Min FW Version	Latest Tested FW Version	i6000	i500	i40/i80
HP LTO-5 (FC) HH	Y5DZ	Y64Z	N/A	N/A	i4 (140G.GS005)
HP LTO-5 (FC) FH	I5DZ	I6KZ	i8 (640Q.GS08801)	i6 (621G.GS001)	N/A
HP LTO-5 (SAS) HH	Z59Z	Z6FZ	N/A	N/A	i4 (140G.GS005)
HP LTO-5 (SAS) FH	X59Z	X67Z	N/A	i6 (621G.GS001)	N/A
HP LTO-6 (FC) HH	236Z	339Z	N/A	N/A	i5 (150G.GS003)
HP LTO-6 (FC) FH	J36Z	J5EZ	i10.3 (650Q.GS10801)	i8 (630G.GS003)	N/A

Drives			Library Firmware - Minimum Version		
Type	Min FW Version	Latest Tested FW Version	i6000	i500	i40/i80
HP LTO-6 (SAS) HH	336Z	339Z	N/A	N/A	i5 (150G.GS003)
HP LTO-6 (SAS) FH	O36Z	03BZ	N/A	i8 (630G.GS003)	N/A
IBM LTO-5 (FC) FH	CBG0	F3H4	i8 (640Q.GS08801)	i6 (621G.GS001)	N/A
IBM LTO-6 (FC) FH	CB20	E6R6	i10.3 (650Q.GS10801)	i8 (630G.GS003)	N/A
IBM LTO-6 (SAS) FH	D8E4	D8E4	i10.3 (650Q.GS10801)	i8 (630G.GS003)	N/A

System Requirements

This section lists the system requirements for Scalar LTFS and a description of each requirement.

Requirement	Description
Use with library	Scalar i40, Scalar i80, Scalar i500, Scalar i6000, Dell ML6000
Drives	HP LTO-5 and LTO-6 IBM LTO-5 and LTO-6
Library Connectivity	Fibre channel SAS
Network Connectivity	Recommended minimum 1GbE
Media	LTO-5 or later
Operating System	Tested operating systems **CIFS** • Windows Server 2003 • Windows Server 2008 • Windows Server 2012 • Windows 7 • Mac OS X 10.7 **NFS v4** • Linux RHEL 5.6 • Linux Ubuntu 10.4

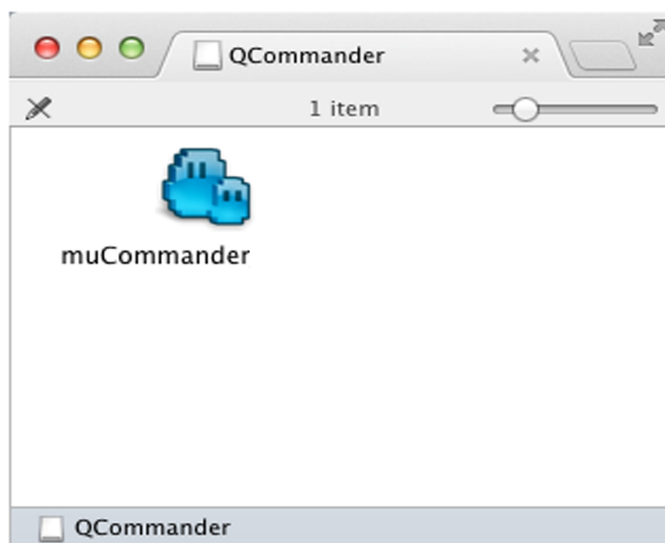| Requirement	Description
Internet Browsers	Tested Internet Browsers: • Firefox 18.0.2, 19.0, 26.0, 40.0.3 • Chrome 18.0, 25.0.x, 32.0.x, 45.0.x • Internet Explorer 8.0.x, 9.x • Safari 5.0.6
Adobe Flash Player	• 10 or higher

muCommander - Quantum Edition v1.3

For the Scalar LTFS 2.4 release, Quantum is including a modified version of muCommander as the recommended file browser for Windows and MacOS. Some native file browsers and applications will attempt to perform hidden file reads to gather file information for user presentation causing unexpected tape mounts and severe performance issues. Quantum's version of muCommander eliminates these issues.

Install muCommander for Windows

1 Go to http://www.quantum.com/serviceandsupport/softwareanddocumentationdownloads/sltfs/index.aspx

2 Select the **Downloads** tab.

3 From the list of downloads, click the **Download** button for the muCommander - Quantum Edition. A popup window displays.

4 Select the **I Accept** checkbox.

5 Click **Accept**.

6 The .zip file will download through your web browser.

7 Save the .zip file to your local machine.

8 Extract the contents of the file. The .zip file contains:

  • the muCommander - Quantum Edition .exe

  • the muCommander - Quantum Edition user instructions

9 Double-click the **muCommander.exe** file and follow the instructions to complete the installation.

10 When installation is complete, refer to the document included in the .zip file for basic instructions on how to setup and use muCommander - Quantum Edition.

Install muCommander for Mac

1 Go to http://www.quantum.com/serviceandsupport/softwareanddocumentationdownloads/sltfs/index.aspx

2 Select the **Downloads** tab.

3 From the list of downloads, click the **Download** button for the muCommander - Quantum Edition. A popup window displays.

4 Select the **I Accept** checkbox.

5 Click **Accept**.

6 The .dmg file downloads to your **Downloads** folder.

7 From the **Downloads** folder, double-click the file to begin the download.

8 When complete, a drive icon will display on your desktop.

9 Double-click the .dmg drive icon. A window displays with the muCommander icon.

10 Drag the muCommander icon to your **Applications** folder.

11 When installation is complete, refer to the document included in the .dmg file for basic instructions on how to setup and use muCommander - Quantum Edition.

General Issues

The following are important items not covered in the Known Issues section of this document.

• With NFS, if all resources are busy, system calls may receive an EAGAIN failure. This requires the operation to be retried by the host application.

• SLTFS does not support RealTek Ethernet cards on MacOS.

- Files copied from a Windows system to SLTFS and opened on MacOS sometimes produce an -8084 error. To avoid this error, copy to SLTFS media rather than a direct copy from Win7 to MacOS.

- On MacOS, copying files to newly formatted media can cause a dialog to display stating that a newer version already exists in the location you are trying to copy to. When the Finder displays the replace dialog, click **Yes**.

- With NFS, if the Scalar LTFS appliance is restarted, users will have to unmount and remount the NFS share.

- Due to tape latency it is possible that file I/O may timeout which will require the user to retry the I/O from the host system. For more details on advanced configuration, reference Chapter 2 - Best Practices in the Scalar LTFS User's Guide.

- Some special characters used by Mac are not supported by the LTFS format.

- The new Replication feature has replaced the tapecopy functionality.

Resolved Issues

This release of Scalar LTFS has the following resolved issues:

Change Request Number	Service Request Number	Description	Solution
50339		Due to size constraints, all indexes many not be contained in the save/restore image.	Fixed.
52449	3408766	When downloading the firmware upgrade file from Quantum.com, user were pointing to the .zip file instead of extracting the .fw from the .zip file and pointing to that file during the upgrade.	Documentation now reflects the correct procedure for upgrading firmware.
56639		Accessing the Media page using Google Chrome incorrectly generated a "Server Unvailable" error message.	Fixed.

Known Issues

This release of Scalar LTFS has the following known issues:

Change Request Number	Service Request Number	Description	Workaround
		When logging into SLTFS, users may see an 'unsafe connection' warning relating to Internet certificates.	Click the button on your related Internet browser to accept and continue.
56746		A failure during a volume group merge will produce an incorrect reason for the failure.	If you receive a **No Memory Available** reason for a failed merge, check to make sure the new volume group doesn't exceed the set limit. The default limit for volumes per volume group is 5000.
57100		During a Remote Authentication test, a confirmation dialog may incorrectly appear.	The confirmation will ask if you want to "lose current changes" even if you haven't changed anything. Click **OK** and fix any errors that caused the test failure.
57366		Google Chrome may mistakenly mark extended snapshots as malware depending on your settings.	If you receive the message, "Recover Malware? This file may be harmful for your computer." disregard and select the **Keep Anyway** option.
56714		For SLTFS systems, the initial SSL certificate is set to expire after 1 year.	Two ways to deal with this issue: • Accept the expiration warning and continue on. • Call Quantum Service and they will reset your SSL certificate expiration date so the warning no longer appears.

Contacting Quantum

More information about this product is available on the Service and Support Web site at www.quantum.com/support. The Service and Support Web site 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 Support:

Global Call Handling	+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 Support, please visit:
www.quantum.com/support