muCommander - Quantum Edition User Guide for MacOS, Linux and Windows

Contents

Introduction

muCommander - Quantum Edition was modified to address issues with how local file systems handle reading and writing files. Since local file systems tend to do more than simply read and write files, system performance can be negatively impacted, especially with the size files that Scalar LTFS handles on a regular basis.

WARNING: Only the version of muCommander available from Quantum should be used with Quantum libraries. Any other version of muCommander will not work as intended.

muCommander - Quantum Edition is intended to be used as a simple file browser where users drag and drop files from one file system to another. Only the features and functionality listed in this document are supported by Quantum. All other questions pertaining to muCommander should be directed to www.mucommander.com.

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Install muCommander - Quantum Edition

Quantum uses a modified version of muCommander as the recommended file browser for Windows, Linux 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

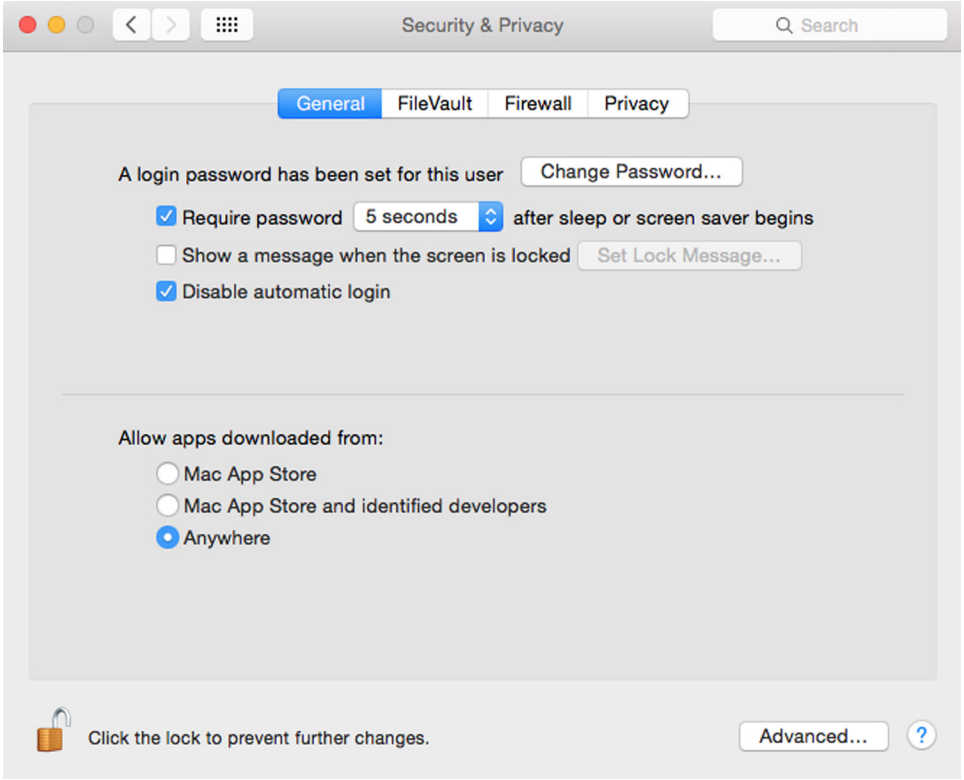
1. Go to http://www.quantum.com/serviceandsupport/softwareanddocumentationdownloads/sltfs/index.aspx
2. Select the **Downloads** tab.
3. From the list of downloads, click the **Download** button for the muCommander - Quantum Edition. A popup window displays.
4. Select the **I Accept** checkbox.
5. Click **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

Prior to downloading the .dmg file, you must set your security and privacy settings.

Change Security and Privacy Settings for the Mac v10.9 and higher

1. Under the **Apple** menu, select **System Preferences**.
2. Click the **Security & Privacy** icon. The **Security & Privacy** screen displays.



3 Select the **General** tab.

4 Click the **Lock** icon in the lower left of the screen and enter the password for your computer if necessary.

5 In the **Allow apps downloaded from:** area, select **Anywhere**. A confirmation dialog appears.

6 Click the **Allow From Anywhere** button.

7 Close the window.

Download 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.

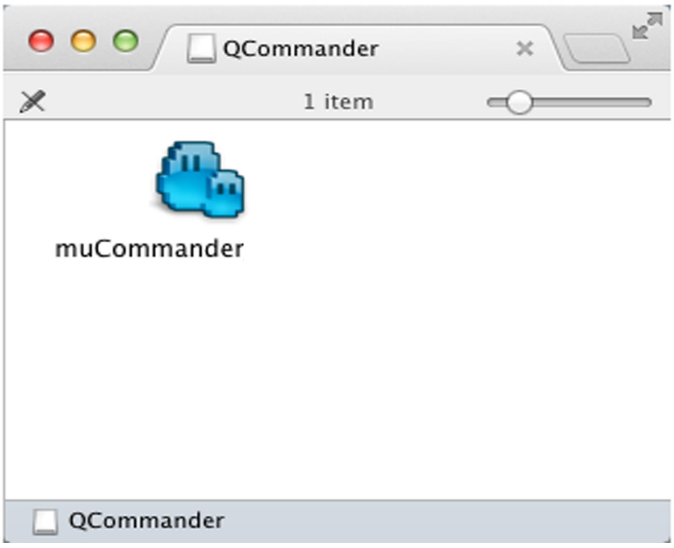
5 Click **Accept**.

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.

Install muCommander for Linux

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 Linux version. There are two different versions so choose the one that applies to your version of Linux. A popup window displays.

4 Select the **I Accept** checkbox.

5 Click **Accept**. The .tar.gz file downloads to your selected folder.

6 Extract the files to the necessary destination.

Open a command line and type **./mucommander.sh**. The application is installed and muCommander - Quantum Edition is opened.

Configure muCommander - Quantum Edition

Connect to the SLTFS Appliance

Caution: It is recommended that users do not use an already mapped network connection to the Scalar LTFS Appliance and then connect through muCommander - Quantum Edition. Users should only connect to the SLTFS Appliance through the muCommander - Quantum Edition using the instructions listed in this section.

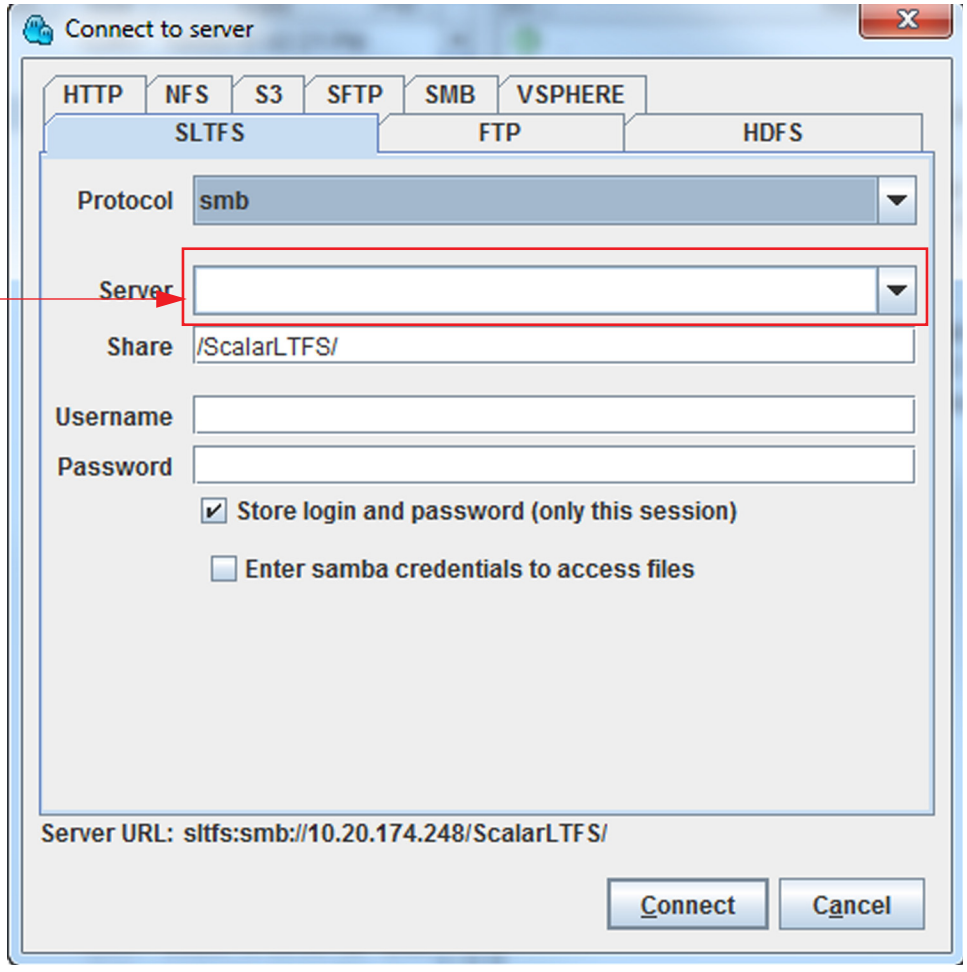
Note: SMB is the only protocol supported in muCommander - Quantum Edition. However, do not use the SMB tab when configuring muCommander - Quantum Edition.

After installing the application, you must first set up basic configuration to the Scalar LTFS Appliance. To complete the configuration:

1. Launch muCommander - Quantum Edition.
2. Select **Go > Connect to Server**. The **Connect to Server** screen displays.

Figure 1 Connect to Server screen

DNS Name or IP Address of Scalar Library



3 Select the **SLTFS** tab.

Note: You cannot use the **SMB** tab to connect to the SLTFS Appliance in muCommander - Quantum Edition.

4 From the **Protocol** drop-down menu, select **SMB**.

5 In the **Server** field, type in the **IP address** or **DNS name** for the Scalar LTFS Appliance or Scalar library that contains an iBlade.

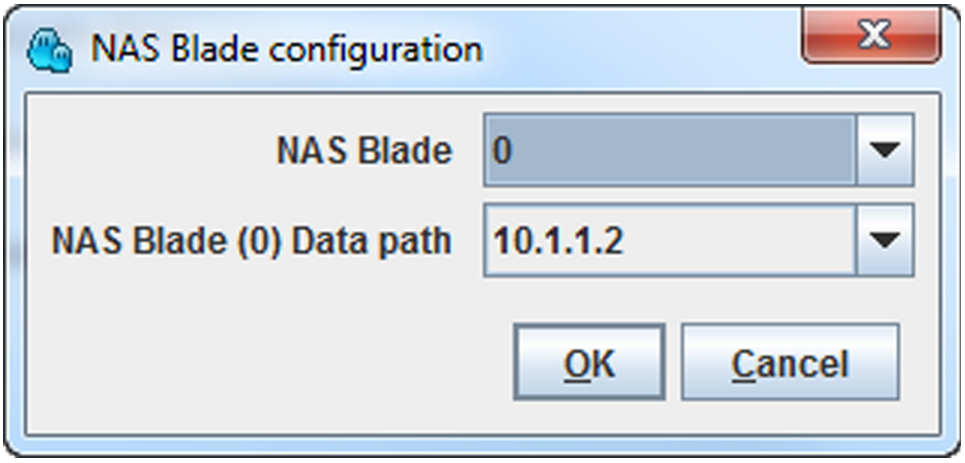
6 In the **Share** field, type in /ScalarLTFS/.

7 Enter your user name and password to access the SLTFS Appliance.

8 Click **Connect**. You are now connected to SLTFS.

Connect to an SLTFS iBlade

If the library you are connecting to has an SLTFS iBlade installed, you will be prompted to select the IP address of the iBlade.



1 From the **NAS Blade** drop-down menu, make sure **0** is selected.

2 From the N**AS Blade (0) Data path** drop-down menu, select the IP address of the configured iBlade on your library.

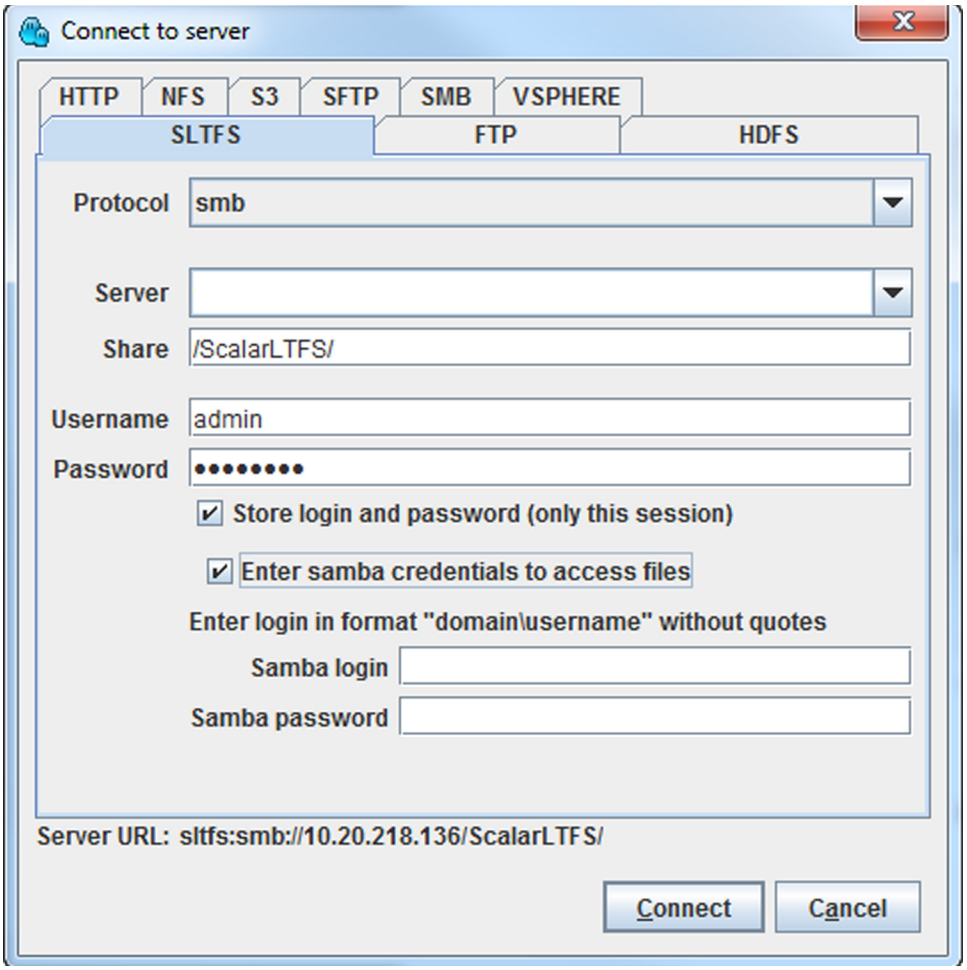
3 Click **OK**.

Connect to the SLTFS Appliance Using Remote Authentication

If remote authentication is enabled for SLTFS, you must use your Samba credentials to connect to the SLTFS appliance. To complete your login to SLTFS, follow steps 1-7 in the Connect to the SLTFS Appliance procedure and then:

1 Select the **Enter samba credentials to access files** check box. At the bottom of the **Connect to Server screen**, the **Samba login** and **Samba password** fields display.

Figure 2 Connect to Server screen with Samba

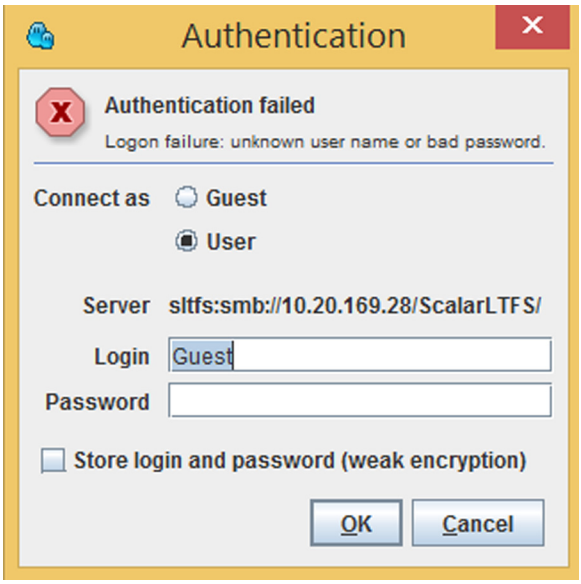


2 Enter your Samba login credentials.

3 Click **Connect**. You are now connected to the Scalar LTFS Appliance.

4 If you have remote authentication enabled and you don't enter your Samba credentials, after clicking **Connect**, a screen displays asking you to enter in your Samba credentials.

Figure 3 Samba Authentication screen



5 Enter your Samba credentials and click **OK**. You are now connected to the Scalar LTFS Appliance.

Note: To turn off remote authentication, from the SLTFS GUI, select **Tools > Remote Authentication**. Uncheck the E**nable Filesystem ACLs** check box.

Basic Features and Functionality

Since muCommander - Quantum Edition is a 3rd party application that has been modified by Quantum, not all features and functionality are supported by Quantum Service. The following are the only features and functionality supported by Quantum. For all other questions, contact muCommander using their website: www.mucommander.com.

Display Folders in a Panel

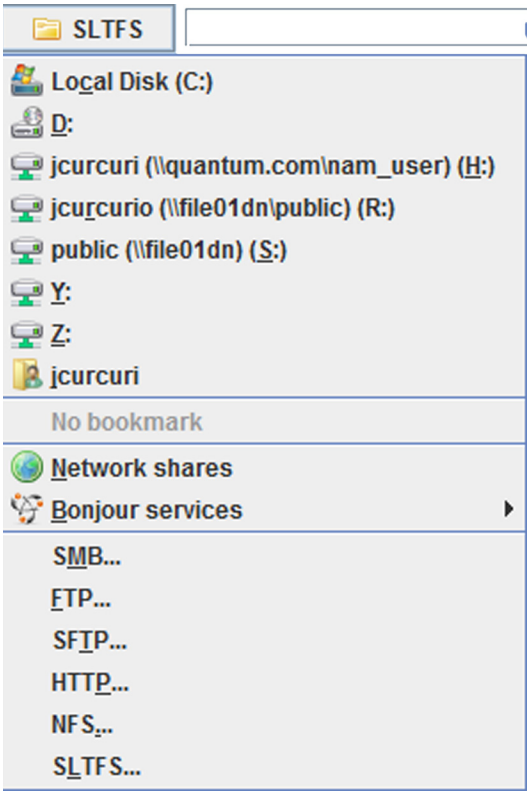
To select a source or destination folder to display in the non-Scalar LTFS panel:

1 Click the **Path** button next to the **Path** field. It will list the current folder you are displaying and when clicked, will drop-down a list of available mapped drives and volumes.

Figure 4 Path Button

2 From the drop-down list, select the drive, folder or volume you want to display in the panel.

Figure 5 Path Button options



3 Navigate within the panel until you find the desired files.

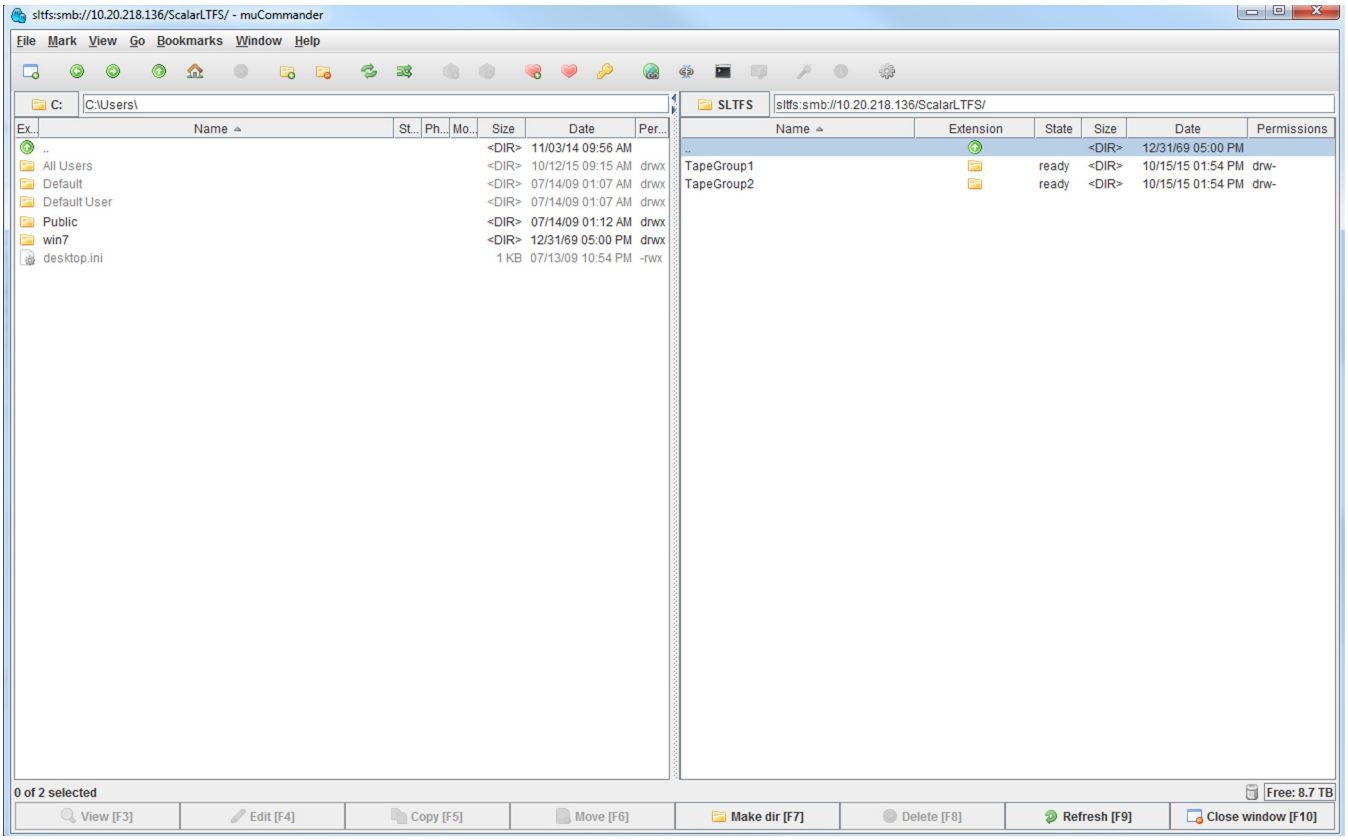
Navigating within a Panel

Navigating within a panel in muCommander - Quantum Edition is not much different than working with Windows Explorer or the Finder on MacOS. The following lists and briefly describes some of the ways to navigate within a panel.

Table 1 Navigation options

Double-click a folder, drive or volume		This is the most basic way to open a folder, drive or volume
Using the up green arrow button		Clicking this button displays the folder, drive or volume one level back in your path
Using the right and left green arrow buttons		Clicking these button moves you forward or backward within the folders, drives or volumes you have already visited

Figure 6 muCommander - Quantum Edition window

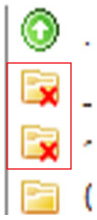


The updated window shows new columns that provide media and volume state information. The **State** column displays the following values:

- available
- degraded
- vaulted

The window also shows what media and volumes are offline by displaying a red X on the folder icon.

Figure 7 Offline icon



Opening a New Window

Since the recommended size of the files in Scalar LTFS is quite large, users of muCommander - Quantum Edition can take advantage of opening new windows to perform multiple read/writes concurrently.

To open a new window in muCommander - Quantum Edition:

1 Select **File > New Window**. A duplicate of the currently open window displays.

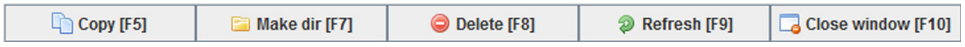
You can now drag and drop more files on SLTFS that will be read/written concurrently.

Caution: If you're using multiple windows to do concurrent I/O, do not read or write to the same SLTFS volume. This can negatively impact system performance.

Use Shortcut Buttons

muCommander - Quantum Edition provides various shortcut buttons in the **Command Bar** at the bottom the window allowing users to perform basic functions quickly.

Figure 8 Command Bar



Volume Group Names

Volume group names are restricted to 255 characters and can only be changed from a file browser, such as muCommander - Quantum Edition. Volume group names also cannot use the following special characters:

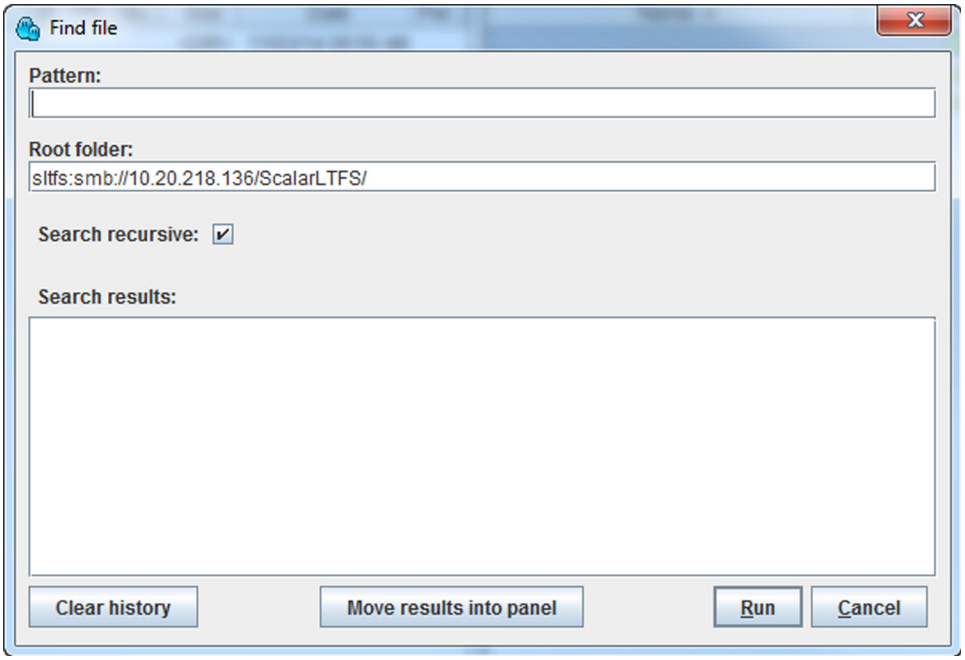
- / :" * ? > < | \

Search for Files

It is possible to search for files using muCommander - Quantum Edition. To perform a search:

1 Select **File > Find File**. The **Find File** screen displays.

Figure 9 Find File screen



2 In the **Pattern** field, type the name of the file you want to search for.

3 Click **Run**. The results display in the **Search results** area of the Find File screen.

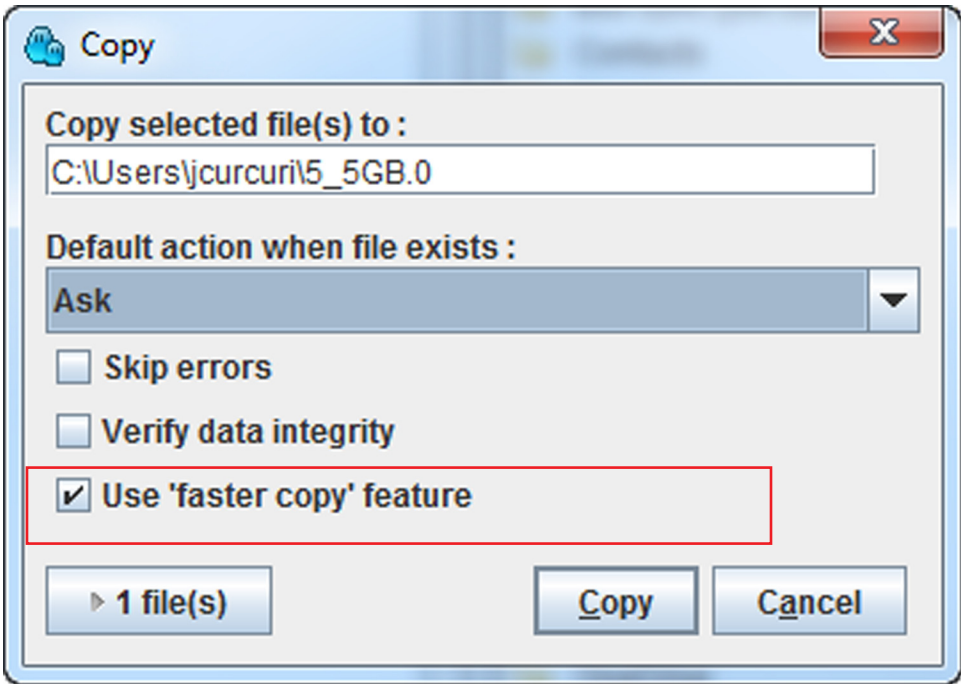
Copying Files in the SLTFS Window

SLTFS allows for 'fast copy' of files from the SLTFS window to any location on a host.

Caution: The 'fast copy' feature is only available for Windows OS.

1 In the **SLTFS** window, select the file(s) you want to copy. To select multiple files, hold down the **Ctrl** key while selecting the files. The selected files will display in red.

2 Click the **Copy (F5)** button. The **Copy** window displays.



3 Verify the number of files you want to copy by click the File(s) button.

4 Click **Copy**.

Note: If you do not see the 'Fast Copy' option, you are not connected to the Scalar LTFS appliance or Scalar library correctly. Go back to Connect to the SLTFS Appliance on page 5 and reconnect to the appliance or library that contains an iBlade.