



SPECTRA T950 LIBRARY QUICK REFERENCE GUIDE



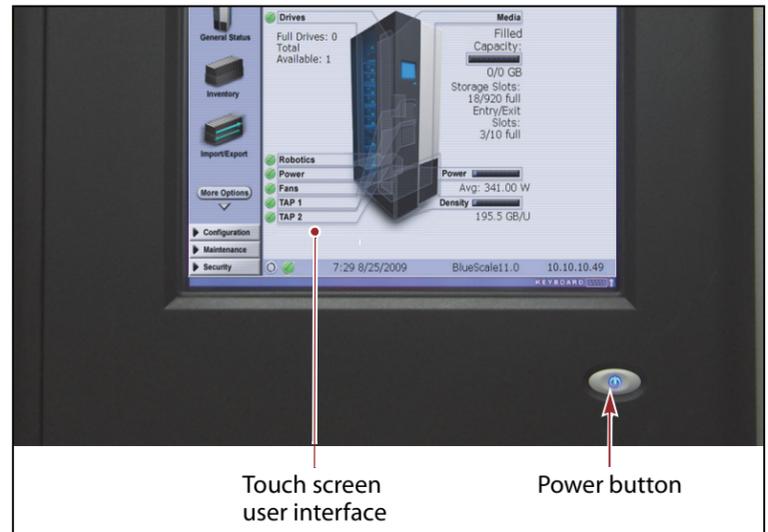
1 POWERING THE LIBRARY ON AND OFF

Keep this guide near the library for quick reference about the most common library operations. Refer to the *Spectra T950 Library User Guide* at support.spectralogic.com/documentation for detailed library information.

Power On Press and hold the front panel power button for several seconds until the button's LED illuminates. Wait while the library completes its power-on sequence, which takes about five minutes depending on the library configuration. During the power-on sequence the library initializes all components.

Power Off If the power button is illuminated, press and hold the front panel power button until the button's LED starts flashing (about 6 seconds). If the button is not illuminated (but the library is running), log in as a superuser and use the General Status screen soft power button. The power-off sequence takes approximately one minute to allow applications to shut down gracefully.

Note: If the library is experiencing problems, do not power it off unless specifically directed to do so by Spectra Logic Technical Support.



Touch screen user interface

Power button

2 LOGGING INTO AND OUT OF THE USER INTERFACE

Log Into the Library After the power-on sequence completes, the Login screen displays.

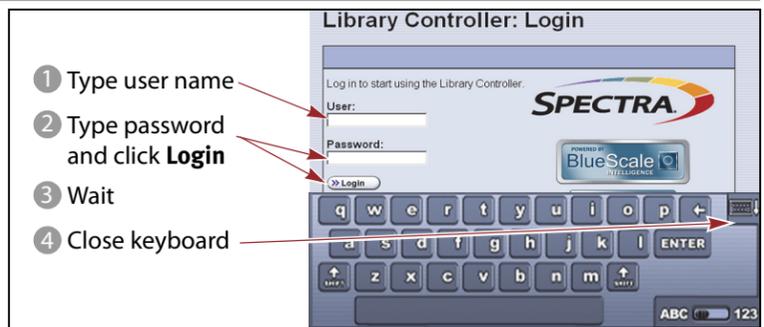
Note: If the pre-login General Status screen is displayed, click **select here to login** at the bottom of the screen to display the Login screen.

- Using the stylus, touch (to select) the User box and enter the user name.
- If you configured a password for the user entered in Step 1, use the stylus to select the Password box and enter the password. Then click **Login**.

If you have not configured a password—leave the password field blank, and click **Login**.

- Wait for the initialization process to complete.
- Close the keyboard by selecting its icon with the stylus.

Log Out of the Library From the Security screen, select **Switch User** to log out and re-display the login screen.



Users are divided into the following types.

- Superuser**—Controls all aspects of library use and configuration. The default user name for this group is **su**.
- Administrator**—Configures the library and runs diagnostics. The default user name in this group for **administrator**.
- Operator**—Performs tape handling operations. The default user name for this group is **operator**. The default password is blank.

3 USING THE BLUESCALE INTERFACE

The library's user interface lets you set configuration options, view library and drive information and metrics, manage media, and monitor library operations.

Toolbars Selecting a toolbar along the left side of the screen expands it to display the available options within that menu. The General toolbar accesses the most frequently used library screens and controls:

- General Status**—Displays the current status for all of the major library components for the selected library partition.
- Inventory**—Displays controls for viewing the library's media inventory and for moving media from one location in the library to another.
- Import/Export**—Displays controls for importing and exporting media.
- Metrics**—Displays metrics for tape drive performance, power consumption, and storage density for the media types in the library.
- Media Lifecycle Management**—Displays options for generating and viewing Media Lifecycle Management reports.

Status Bar The status bar is located at the bottom of the screen.

- Refresh Button**—Refreshes (updates) the information currently displayed on the user interface.
- Messages & Feature Icons**—Indicate the status of library components, as described in the Icon table to the right. Additional icons provide access to the remote support and BlueScale Vision features, if applicable.
- Last Refreshed**—Shows the time of the last screen refresh.
- Current BlueScale Software Version**—Shows the version of the BlueScale software currently running on the library.
- IP Address or Library Name**—Shows the library's IP address (on the touch screen) or the library's name (when using the BlueScale web interface).

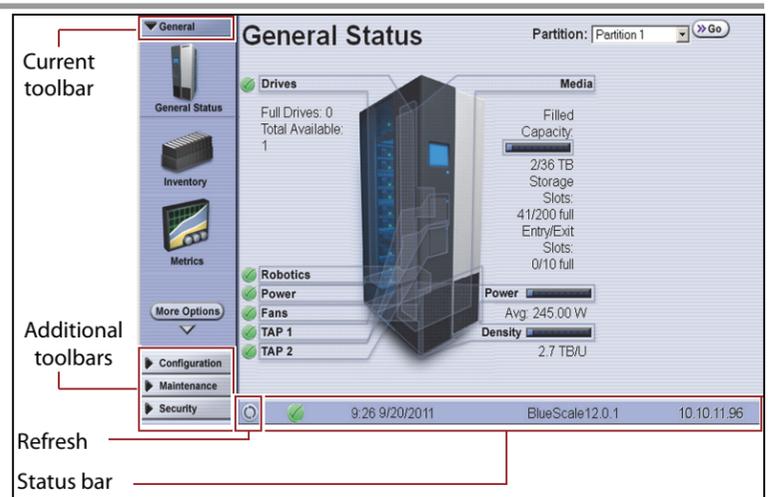
Keyboard Options Entering information into a library screen requires a keyboard. You can use any of these keyboard options:

- Soft Keyboard**—When using the touch screen, use the stylus to select the keyboard icon in the lower right corner of the screen to activate the on-screen keyboard.
- BlueScale Web Interface**—You can connect the library to an Ethernet network and access the user interface through the BlueScale web interface using a standard web browser.

IMPORTANT When accessing the library remotely through a web browser, do not use the Enter key on your keyboard when entering information in any of the text fields. Always click the on-screen buttons in BlueScale screens instead of using your keyboard.

- External Keyboard**—You can connect a USB keyboard and mouse directly to the LCM.

IMPORTANT Do not use special characters when using an external keyboard. Use only the characters that appear on the soft keyboard.



Icon	Meaning
	System OK —All system components are functioning correctly.
	Information —An informational message about a component is available. Check messages to determine the component.
	Attention —A system component requires attention. Check messages to determine the component.
	Error —A system component has experienced an error condition. Check messages to determine the component.
	HHM Notification —A component has reached its maintenance threshold. Click the icon to view the Hardware Health Monitoring notification and generate an AutoSupport ticket.

Soft keyboard—Use the keyboard to enter values in the user interface.

Soft keyboard icon



Soft keyboard opened



- Touch the icon with the stylus to open or close the keyboard.
- Touch the icon with the stylus to switch between letters and numbers.

Stylus—Use the stylus to open and close the keyboard, type the values, and click **ENTER** to complete the process.

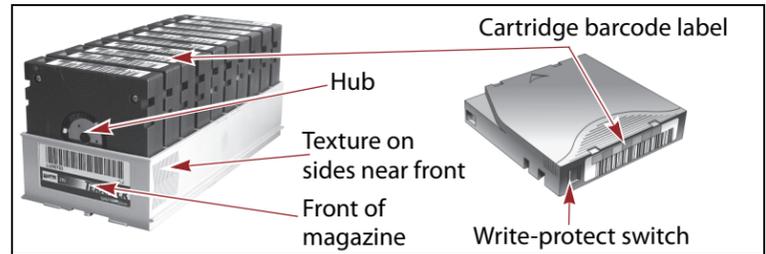


4

PREPARING MEDIA

Before loading media into the library, ensure that it is properly labeled and that the write-protect switch is set for the desired operation. Insert the prepared cartridges into a TeraPack magazine. Make sure that the cartridges are oriented with the hub facing toward the front of the TeraPack magazine and the barcode label facing up.

Note: When using cleaning cartridges, the cleaning cartridge barcode labels must start with "CLN" and the cartridges must be in Maintenance TeraPack magazines, which are identified by a unique barcode label.



Cartridges are always imported or exported in TeraPack magazines using a TeraPack Access Port (TAP) and the Import/Export options on the library's touch screen user interface. See the *Spectra T950 Library User Guide* for more information about preparing media for importing and exporting magazines.

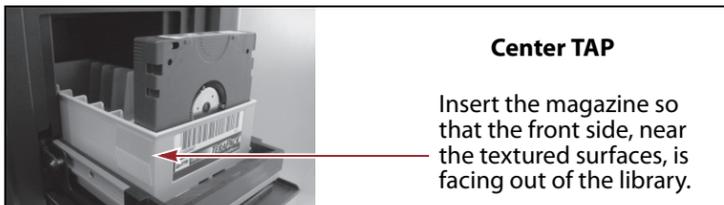
5

IMPORTING OR EXPORTING MEDIA

Import Media You typically import TeraPack magazines into the entry/exit pool for a data partition. After the magazines are in the entry/exit pool, use your software to move the media into the partition's storage pool. See the *Spectra T950 Library User Guide* if you want to import media directly into the storage pool.

If you have a cleaning partition, import the cleaning cartridges directly into the cleaning partition using a Maintenance TeraPack magazine.

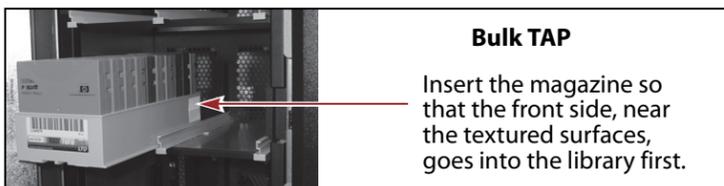
1. From the toolbar menu, select **General** → **Import/Export**.
2. Select the partition and TAP you want to use from the drop-down lists, then click **Go**. The Import/Export TeraPack Magazines screen refreshes to show the current status of the chambers assigned to the selected partition.
3. Click **Import (Entry/Exit)** to open the TAP door.
4. **If you selected the center TAP,**
 - a. The top TAP door opens and a Feedback Required screen displays instructing you to place a magazine in the TAP.
 - b. Insert a magazine into the tray on the open TAP, making sure that it is oriented with the textured surface on each side toward the outside of the library.



- c. Choose one of these options:
 - **Continue**—Choose this option if you plan to import another magazine after the one currently in the TAP. The TAP door closes automatically and the transporter retrieves the magazine from the TAP and moves it to a chamber in the entry/exit pool. If there are still empty chambers available, the second TAP door opens, ready for the next import. The TAP doors alternate as you continue to import media.
 - **Stop Importing**—Choose this option if the magazine you placed in the TAP is the last one to import. The importing process stops after the current magazine is imported.

If you selected the bulk TAP,

- a. The Bulk TAP Move Confirmation screen displays a confirmation message and instructions for performing the import operation. Click **Continue**. The bulk TAP carousel rotates to face the outside of the library.
- b. When the bulk TAP door release button LED is solid green, press the button to open the door. If the carousel contains magazines from a previous export or import operation, the library alerts you to remove those magazines.
- c. Slide one or more magazines into the bulk TAP carousel. Insert the magazine so that the textured surface on each side is toward the inside of the library.



- d. Close the bulk TAP door firmly. An audible click indicates that the door is latched closed.

5. Use your backup software to move the magazines to the partition's storage pool and update the inventory maintained by the software.

Note: Any chambers that do not contain a magazine are inaccessible to the backup software.

Export Media You typically export magazines from the entry/exit pool for a data partition. See the *Spectra T950 Library User Guide* if you want to export media directly from the storage pool.

1. Eject the desired cartridges from the storage pool using your backup software.

The library moves the ejected cartridges from the partition's storage pool into a magazine in the partition's entry/exit pool. When the software reports that the eject operation is complete, proceed to **Step 2**.

Note: Exporting one or more individual cartridges using your backup software requires a TeraPack magazine with sufficient empty slots to be present in the entry/exit pool. If necessary, import one or more empty magazines into the entry/exit pool.

2. From the toolbar menu, select **General** → **Import/Export**.
3. Select the partition and TAP you want to use from the drop-down lists, then click **Go**. The Import/Export TeraPack Magazines screen refreshes to show the current status of the chambers assigned to the selected partition.
4. Click **Export/Exchange** for the entry/exit pool.
5. **If you selected the center TAP**
 - a. The transporter retrieves a magazine from the entry/exit pool and places it in the TAP. The TAP door opens and a Feedback Required screen displays. Remove the magazine from the open TAP and set it aside. If you want to exchange the magazine, put the new magazine into the TAP. It will be put in the chamber from which the exported magazine was retrieved.
 - b. Return to the operator panel and select the appropriate option on the Feedback Required screen.
 - **Continue**—Choose this option if you plan to export another magazine after the one you removed from the TAP. The TAP door closes automatically. If there are still magazines left in the entry/exit pool, the transporter retrieves the next magazine and places it in the second TAP. Continue to remove magazines from the TAP and click **Continue** for each one. The TAP doors alternate as you continue to export media.
 - **Stop Exporting**—Choose this option if the magazine you removed from the TAP is the last one to export.

If you selected the bulk TAP,

- a. If the carousel contains magazines from a previous export or import operation, the library will alert you to remove those magazines. When the bulk TAP door release button LED is solid green, press it to open the door. Remove the magazines, close the door, and click **Continue** to restart the export process.
- b. The Bulk TAP Move Confirmation screen displays a message with instructions for performing the export operation. Click **Continue**. The transporter retrieves up to fourteen magazines from the entry/exit pool and places them in the bulk TAP.
- c. When the door release button LED is solid green, press the button to open the bulk TAP door and remove the magazines from the carousel. If you want to exchange magazines, put the new magazines into the carousel. They will be put in the chambers from which the exported magazine were retrieved.
- d. Close the bulk TAP door firmly. An audible click indicates that the door is latched closed.

6

LOCATING ADDITIONAL INFORMATION

See the *Spectra T950 Library User Guide* available at support.spectrallogic.com/documentation, for more information about library configuration, operation, and troubleshooting. See the *Spectra T950 Library Release Notes and Documentation Updates*, available after you log into the Spectra Logic Technical Support portal at support.spectrallogic.com, for information about BlueScale software and library component firmware, and documentation updates.

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