



StorageTek StreamLine™ SL500

Modular Library System

Local Operator Panel Guide

96258
Revision: B



StreamLine™ SL500 Modular Library System

Local Operator Panel Guide

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Please
Recycle



Adobe PostScript

Summary of Changes

EC	Date	Revision	Description
114154	June 2006	A	Initial Release
114184	November 2006	B	Updated " Operator Panel Login Screens " and TABLE 0-1 to reflect the latest login screens.

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Local Operator Panel

This guide is intended to show operators and service representatives how to use the StorageTek StreamLine™ SL500 modular library system local operator panel. The touch screen panel is available as an optional feature for the library.

The screens might look slightly different depending on your firmware level. Use the ? (help) icon as required. *The operator panel requires library firmware level 1048 or higher.*

The operator panel can be used to perform such actions as:

- View library component details (status, properties, and statistics)
- Configure library and tape drive interfaces and options
- Locate a cartridge
- Move a cartridge
- Empty the hand

Splash Screen

To begin, touch the screen saver to make the splash screen appear.



Operator Panel Login Screens

Touch the splash screen to make the Operator Panel Login screen appear. The title bar at the top of the screen has the help icon (?) on the left, the screen title at the center, and the Back button on the right to take you back to the splash screen. The status bar at the bottom of the screen has the password message and library functionality status on the left, and the time of day on the right.

Three types of users can login. Each user can perform specific functions:

User: Status can:

- View the displays
- Change the Status password

User: Admin can:

- View the displays
- Change the Admin and Status passwords
- Use the Tools function
- Configure and reboot tape drives
- Change the cleaning policy

User: Service can:

- View the displays
- Change the Service, Admin and Status passwords
- Use the Tools function
- Configure and reboot the library and tape drives
- Change the cleaning policy
- Change the network settings
- Set the time and date

Note – The first time the screen appears, the user field is blank. After someone has logged in, the system remembers the last user and sets it as the default.

If you are not logging in for the first time:

Type your current password, then touch the Enter button.

Use the Del key if you need to delete an entry.

If you are logging in for the first time:

1. **Touch the User box to select the user.**

? Sun Login Back

Sun StorageTek™
SL500

User:

Password:

! Door Open 00:00:00

2. Press the button or name to select a user.



3. Press the ENTER button to return to the login screen.

4. Press the Password box.

The image shows a login screen for a Sun StorageTek SL500 device. At the top, there is a grey header bar containing a question mark icon, the Sun logo, the word "Login", and a "Back" button with a left-pointing arrow. Below the header, the text "Sun StorageTek™ SL500" is displayed in a large, dark font. Underneath, there are two input fields: "User:" followed by a yellow box containing the text "Admin", and "Password:" followed by an empty yellow box. At the bottom of the screen, a grey status bar features a yellow warning icon with an exclamation mark, the text "Door Open", and a digital timer showing "00:00:00".

5. Enter the password. If the password has never been set, a dialog box appears and tells you to set the initial password and verify it.
6. Type your new password, then touch the ENTER button.
The password must be between 4 and 9 numbers. You can also use the * and # characters. Use the Del key if you need to delete an entry.
7. Re-enter your new password and touch the ENTER button.



When you have successfully changed your password, the following screen appears.



8. Touch the OK button to go to the Home screen.

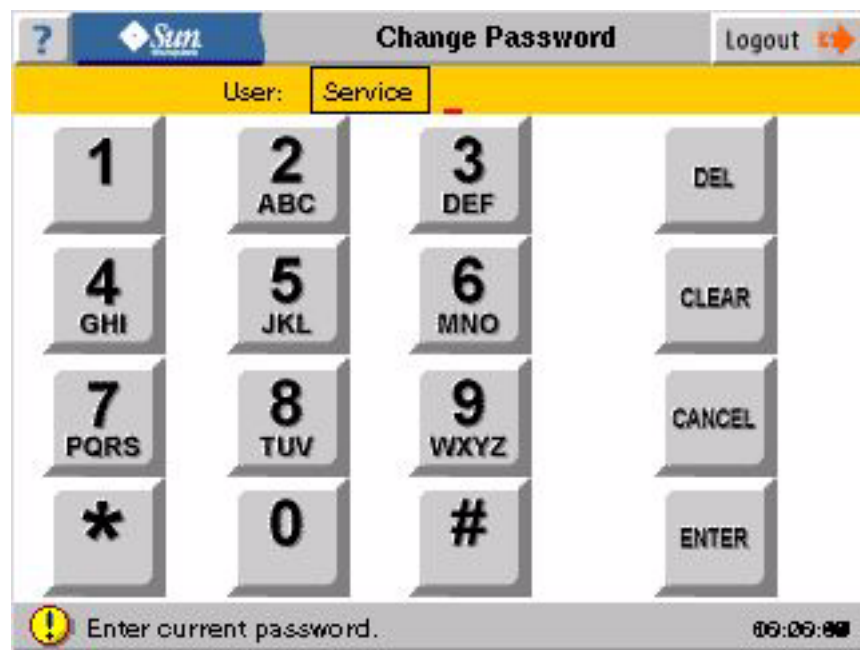
Change Password Screen

The Password button on the Home screen sends you to a screen where you can change your password.

The password must be between 4 and 9 numbers. You can also use the * and # characters. Use the Del key if you need to delete an entry.

To change your password:

1. Touch the User scroll box to select the User type (Admin, Service or Status).
2. Enter your current password for the User type and touch the Enter key.
3. Enter your new password and touch the Enter key.
4. Re-enter your new password and touch the Enter key.



When you have successfully changed your password, the following screen appears.

5. Touch the OK button to go to the Home screen.



Home Screen

The Home screen appears after you login. It displays a picture of the library modules and buttons that allow you to get to the other sections.

The title bar on the top of the screen has the help icon (?) on the left, the screen title on the center, and the Logout button on the right to take you back to the splash screen. The status bar on the bottom of the screen has the library functionality status on the left, and the time of day on the right.

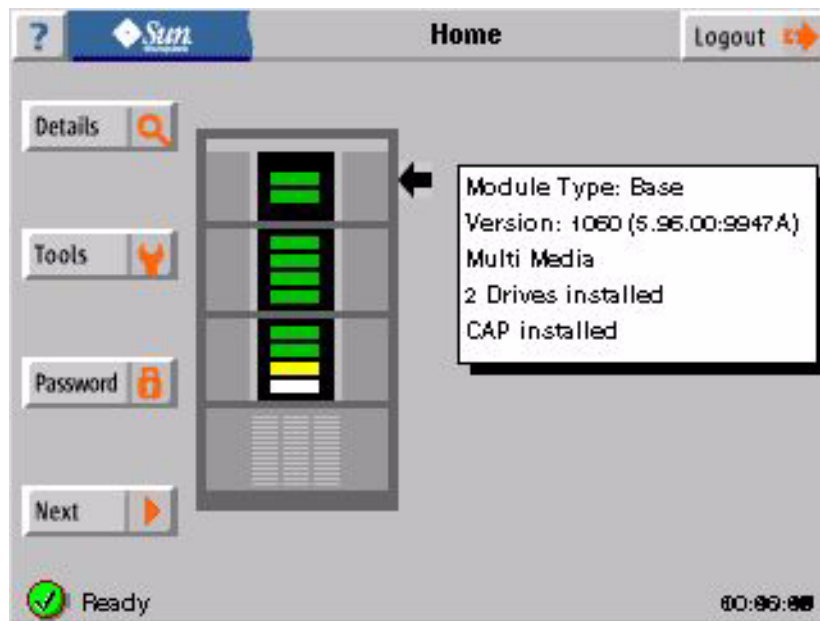
In the middle of the screen is a picture of the library and a description of the module being pointed to by the arrow. You can touch a module in the picture to go to the map of that module.

The Details button takes you into the Status, Properties and Statistics section.

The Tools button takes you into the Tools and Utilities section. *The Tools button is not available for the User: Status.*

The Password button takes you to the change password section.

The Next button moves the arrow and changes the associated description.



Details Screens

The Details screens provide information about the library, drives, cartridges, and slot contents. Select the desired tab along the top of the screen: Status, Properties or Statistics. The menu and corresponding icons on the left edge change with the tab selected.

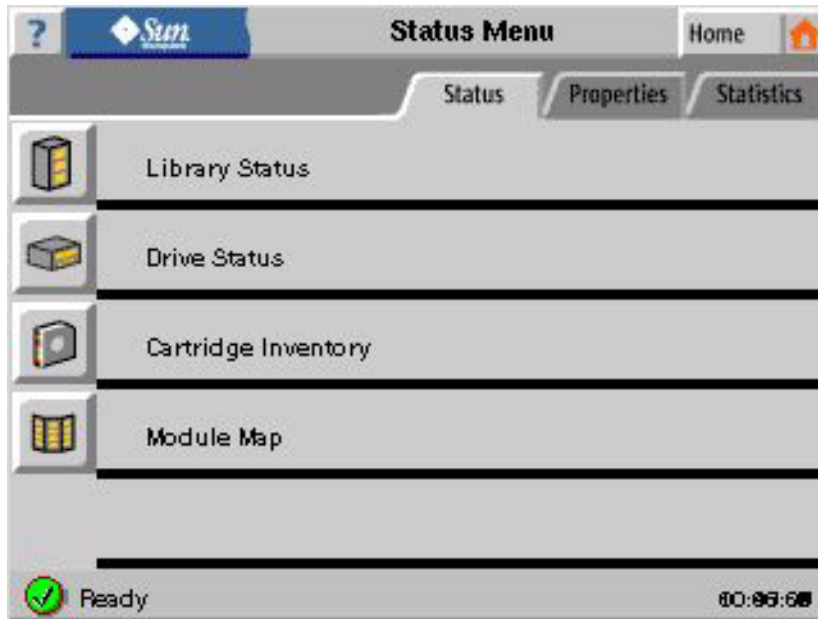
Once selected, the icon highlights to indicate the selection. While displaying information, you may select a tab or icon to display other information without returning to the menu. To display the menu again, select the highlighted tab.

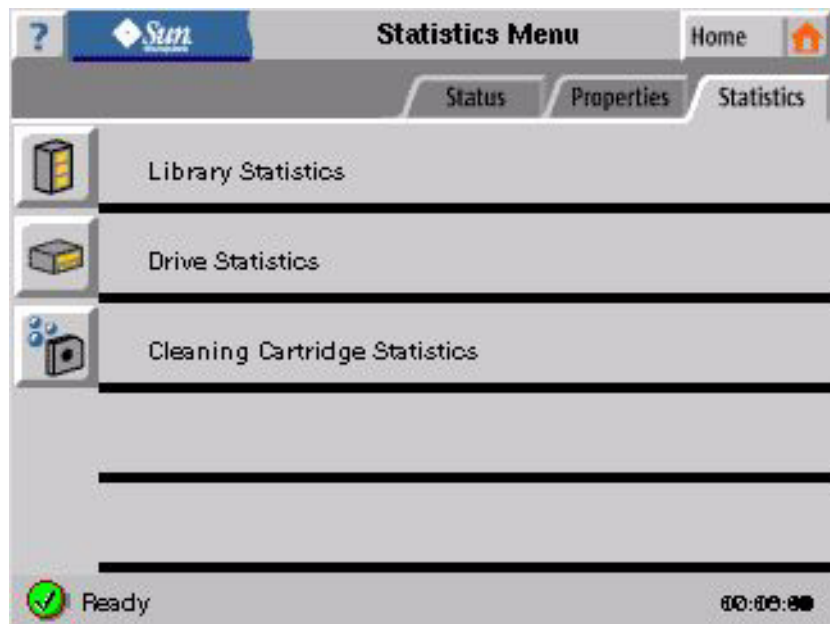
All the screens in the Details set have a title bar at the top of the screen with the help icon (?) on the left, the screen title on the center, and the Home button on the right to take you back to the Home screen. The status bar on the bottom of the screen has the library functionality status on the left, and the time of day on the right.

For the functionality status:

- The green circle with a ✓ means the library is operating correctly.
- The yellow circle with a ! represents a warning state. For example, the library could be initializing, a door could be open, the library could be in maintenance mode. For full operator panel functionality, wait until a ✓ appears (some functions are available when the library is in a non-ready state).
- The blue circle with a ? means unknown.
- The red circle with an X means something is wrong with the library.

The text to the right of the icon provides more information about any non-ready status.





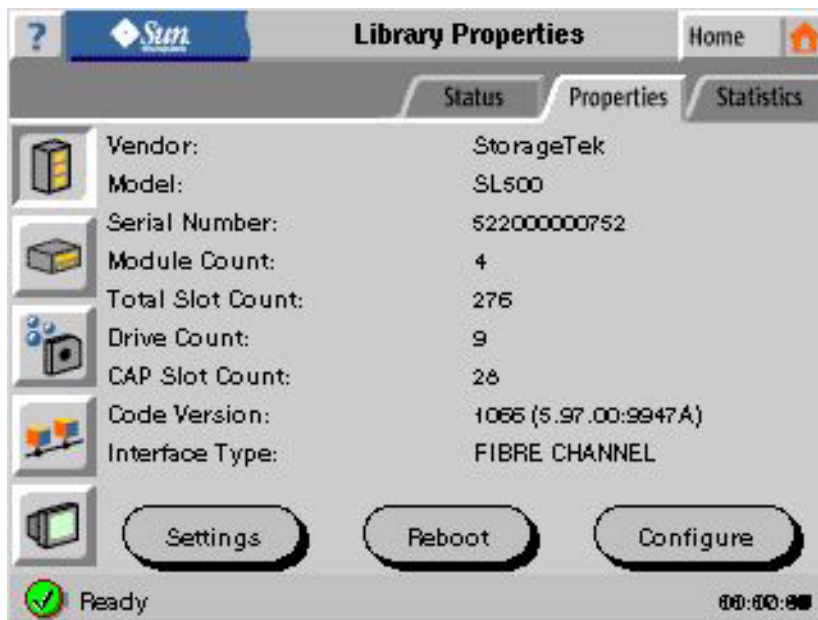
Details Library Screens

The following screens display an example of what could appear when you touch the library icon or corresponding words and each tab.

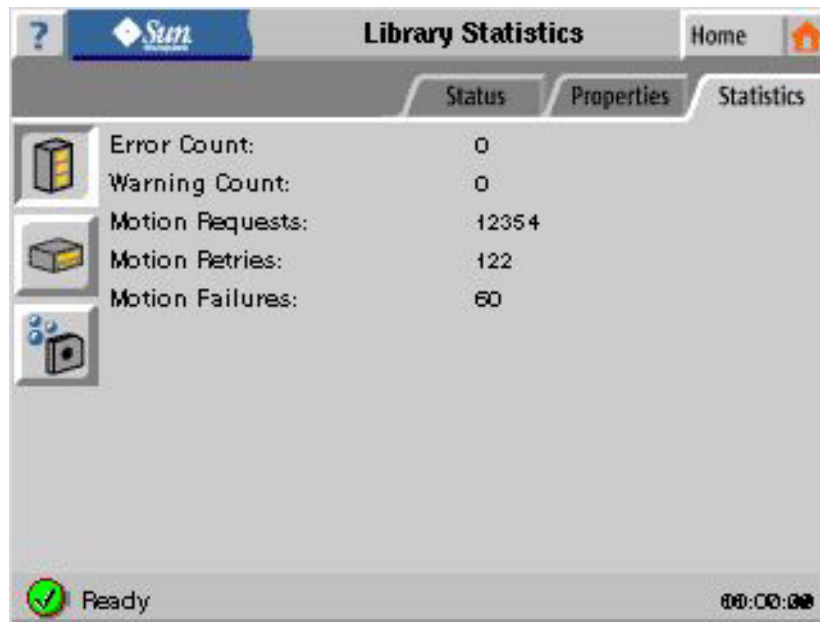
The Status button displays the library's functionality status, drive and robot initialization status, number of cleaning cartridges, and number of occupied slots.



The Properties button displays the main properties of the library.



The Statistics button displays the activities of the library.



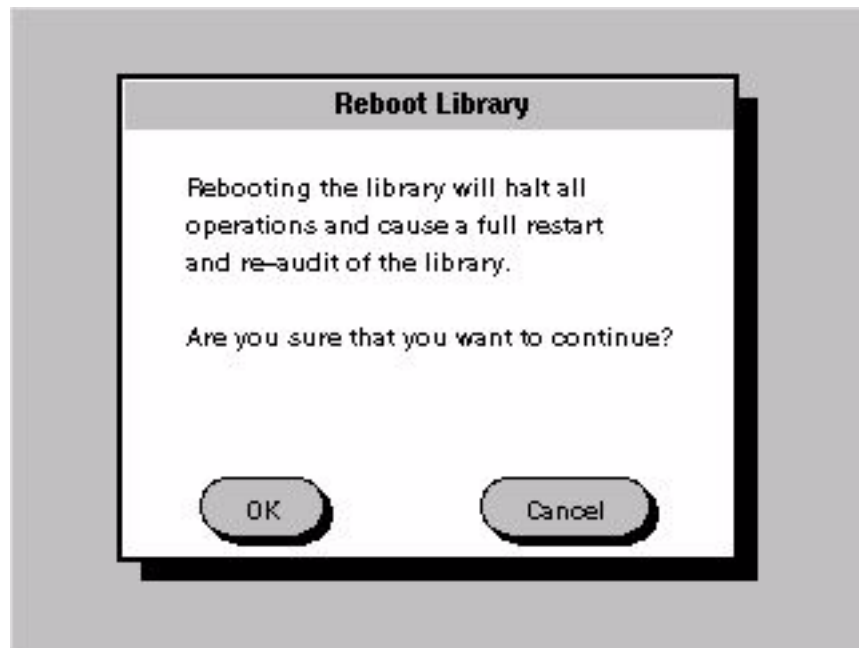
Library Settings Button

The Settings button displays the configurable settings for reserved slots (for cleaning and diagnostic cartridges), restricted slots (according to the library's configuration), audit option, and host and operator panel views of the tape labels.



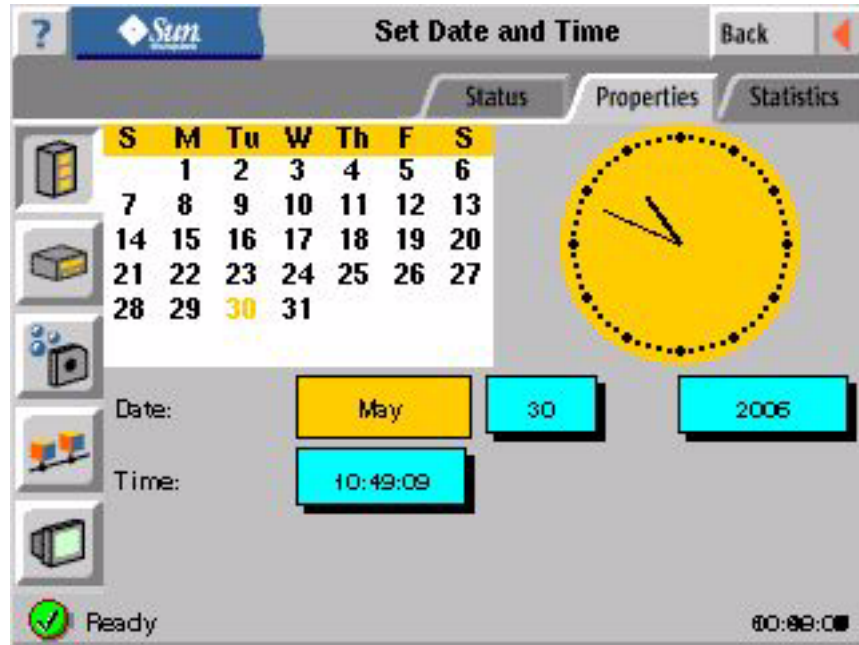
Library Reboot Button

The Reboot button allows *User: Service* to reboot the library. Note the following caution.

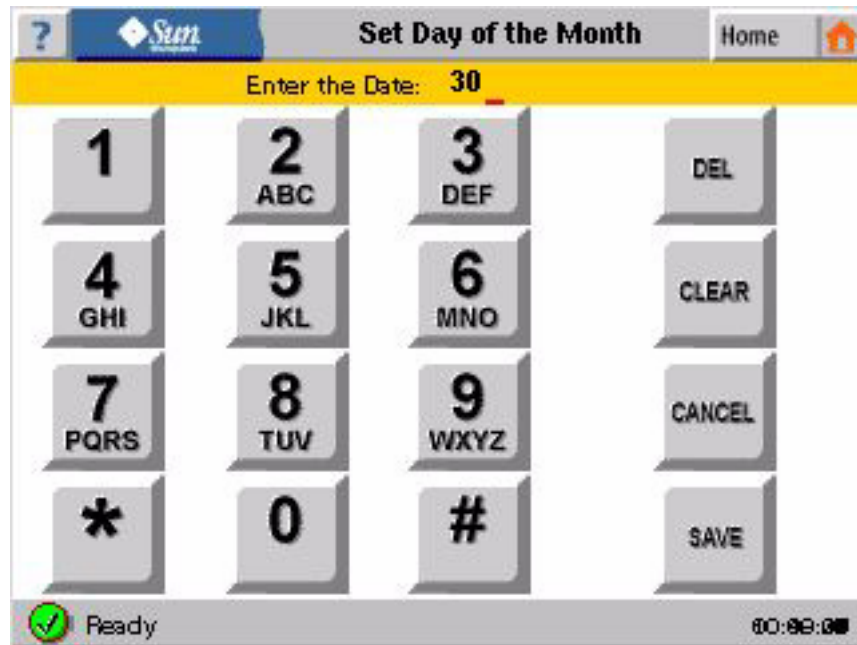


Library Set Date/Time Button

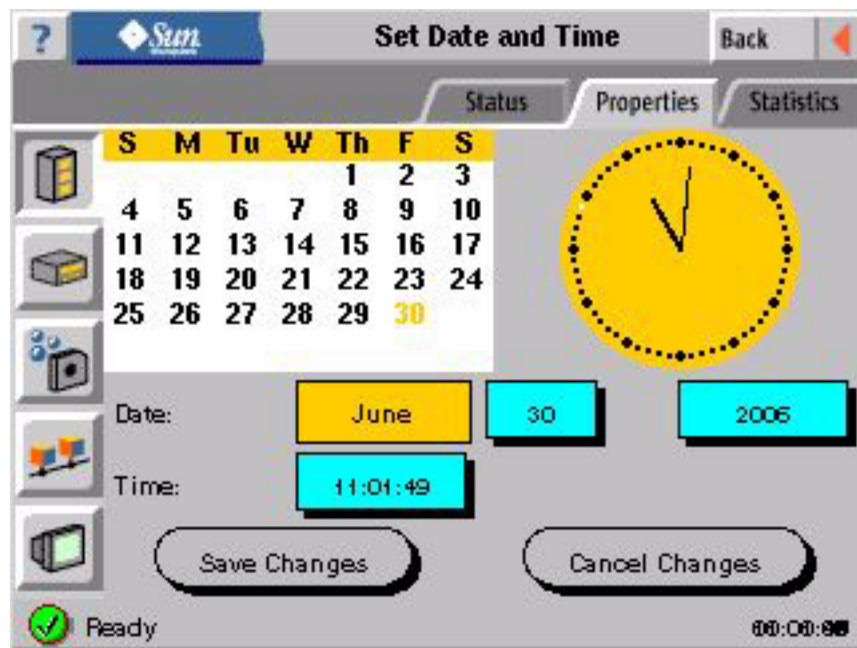
The Set Date/Time button brings up the screens for the *User: Service* to set the date and time for the library. To change the month, touch the box that displays the month to cycle through the months.



To change the time, day of the month or the year, touch the box that displays the value that you want to change and a screen is displayed that allows you to enter the new value. The following screen is for the day of the month.

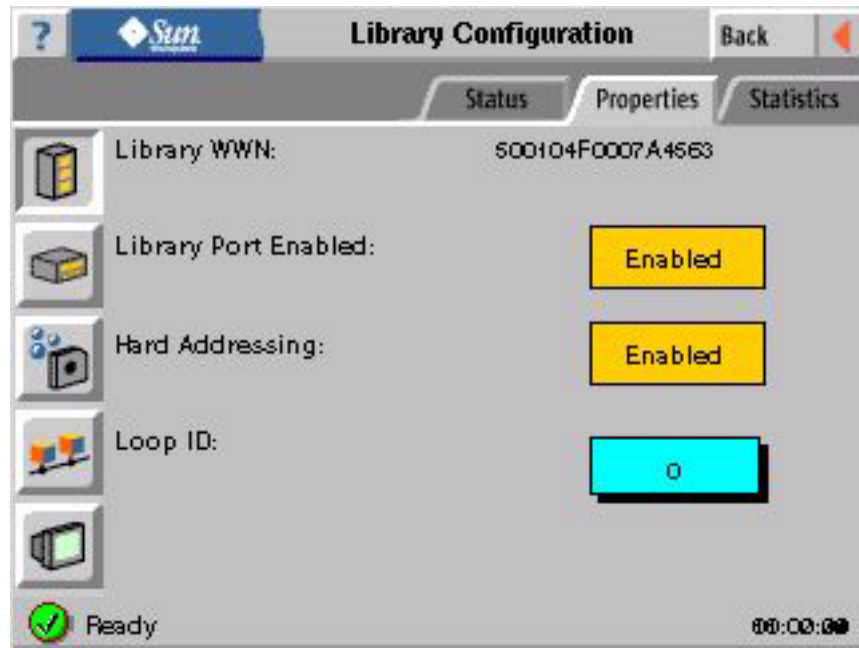


Press Save to set the new date and time or cancel to revert to the previous date and time.

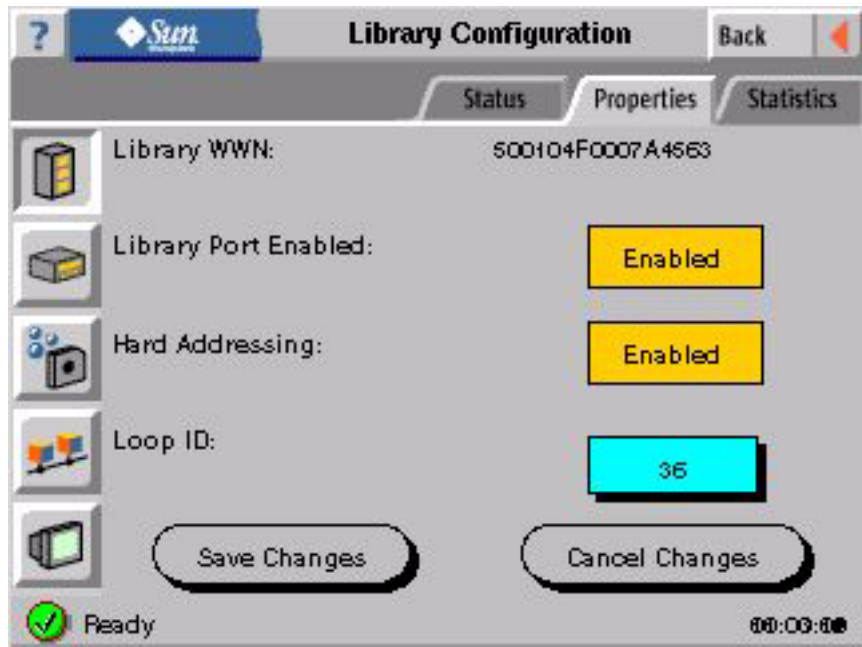


Library Configure Button

The Configure button brings up a screen that shows the configuration of the Library interface. For SCSI interface libraries, the SCSI ID can be changed. For Fibre interface libraries, the port may be enabled or disabled, and hard addressing may be enabled or disabled. If enabled, the Loop ID may be set. *The library must be rebooted for the new configuration to take effect.*



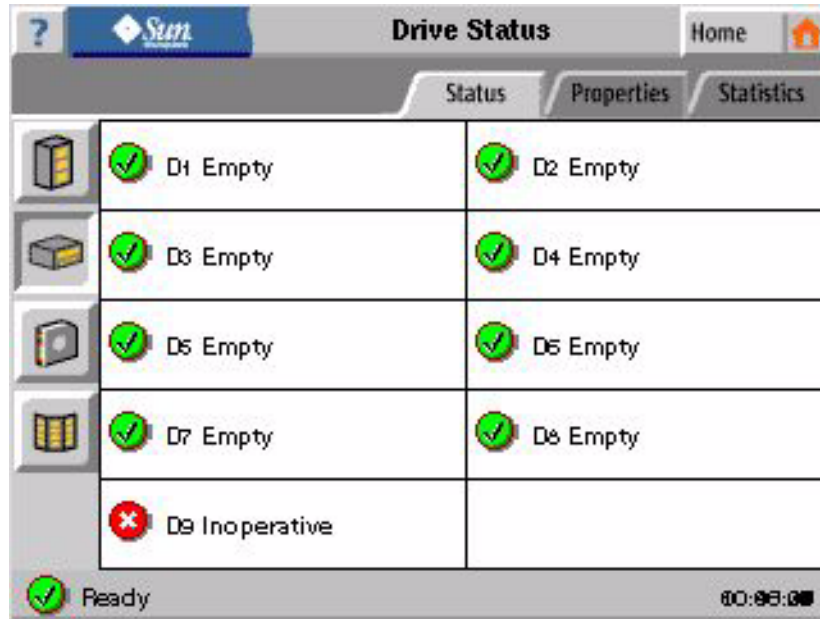
Use the keypad to edit the Loop ID number. The Clear key clears the current number and lets you enter a new one. The Del key is used to backspace. The Save key returns to the previous screen with the new value shown and options to Save or Cancel the changes.



Details Drive Screens

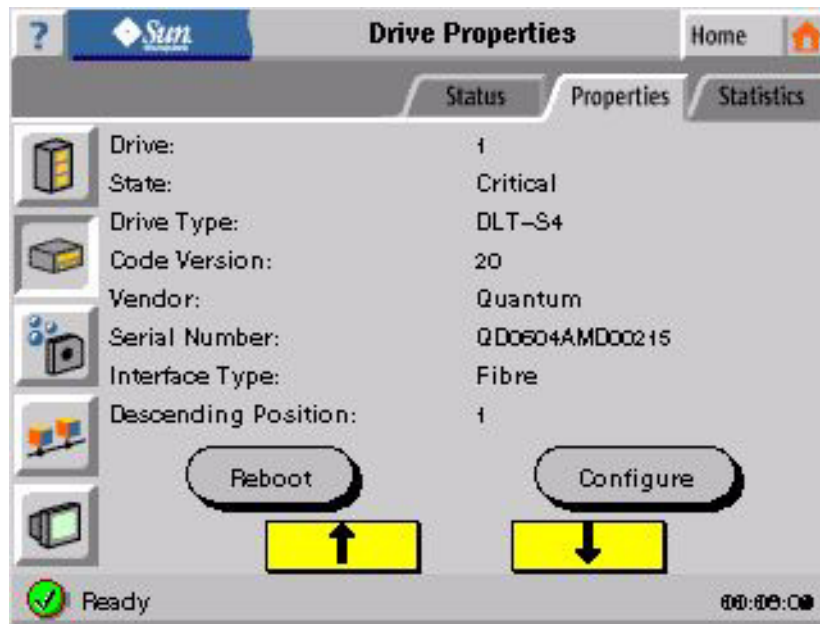
The following screens display an example of what could appear when you touch the drive icon or corresponding words and each tab.

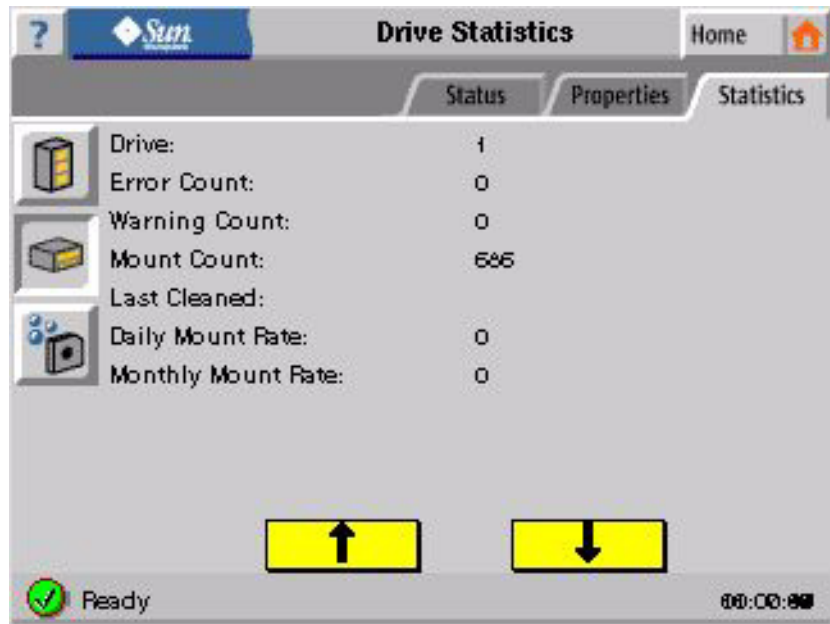
You can touch the icon to see the properties for that drive.



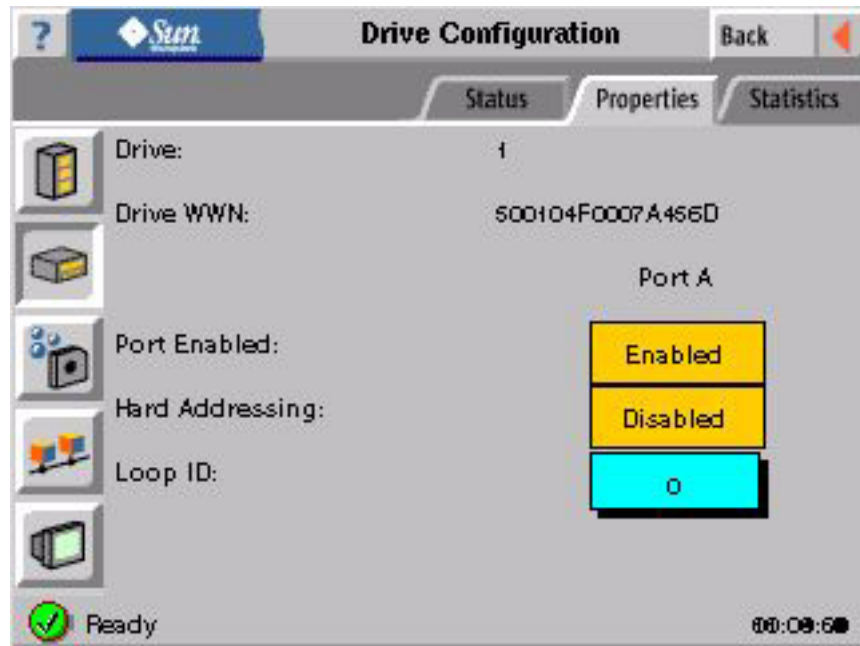
The Up or Down Arrow buttons display other drives.

The Reboot button allows you to reboot the selected drive.

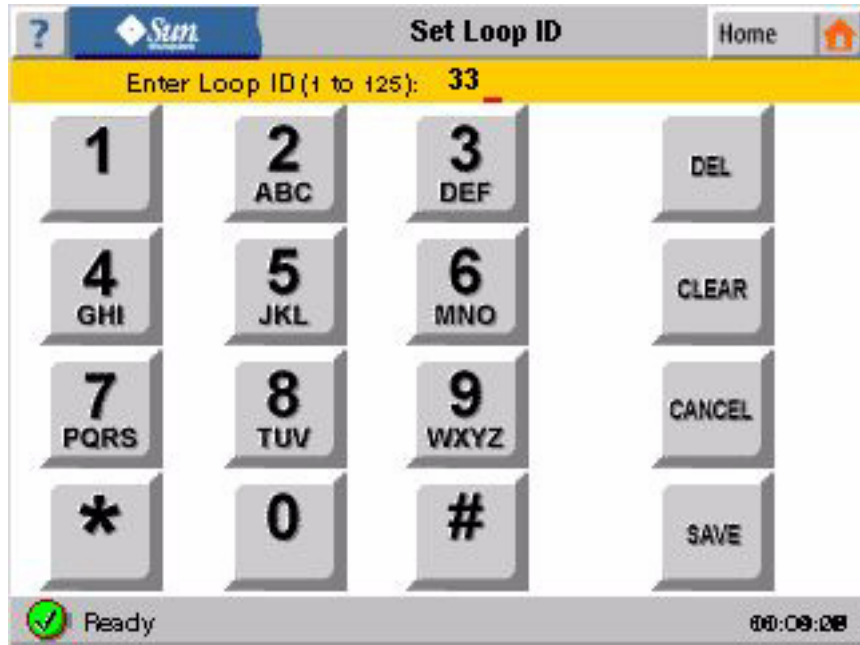


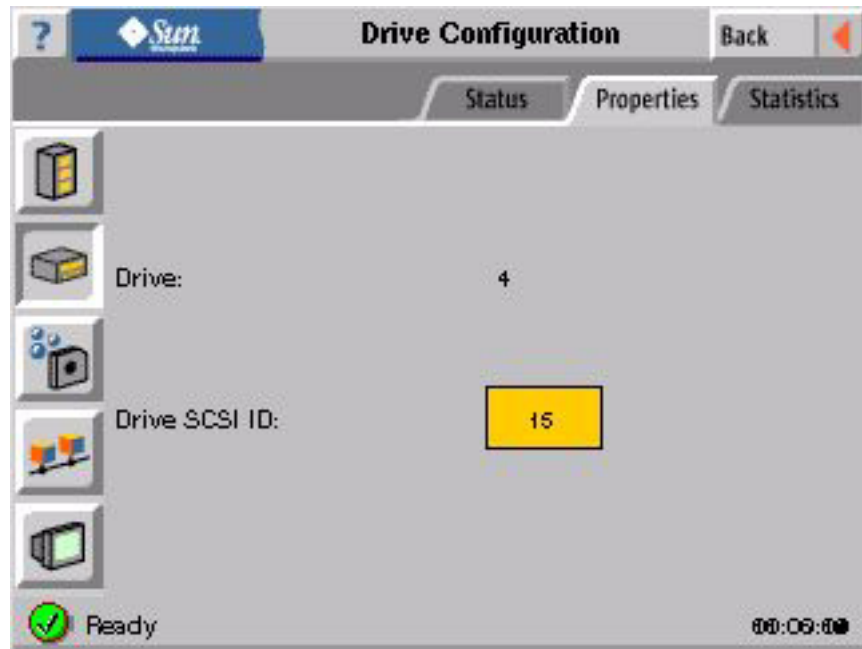


The Configure button brings up a screen that shows the configuration of the specified tape drive. For SCSI interface drives, the SCSI ID can be changed. For Fibre interface drives, the ports may be enabled or disabled, and hard addressing may be enabled or disabled. If enabled, the Loop ID may be set. The drive may be reset when changing configuration, so it might take some time to return from saving.



Use the keypad to edit the Loop ID number. The Clear key clears the current number and lets you enter a new one. The Del key is used to backspace. The Save key returns to the previous screen with the new value shown and options to Save or Cancel the changes.

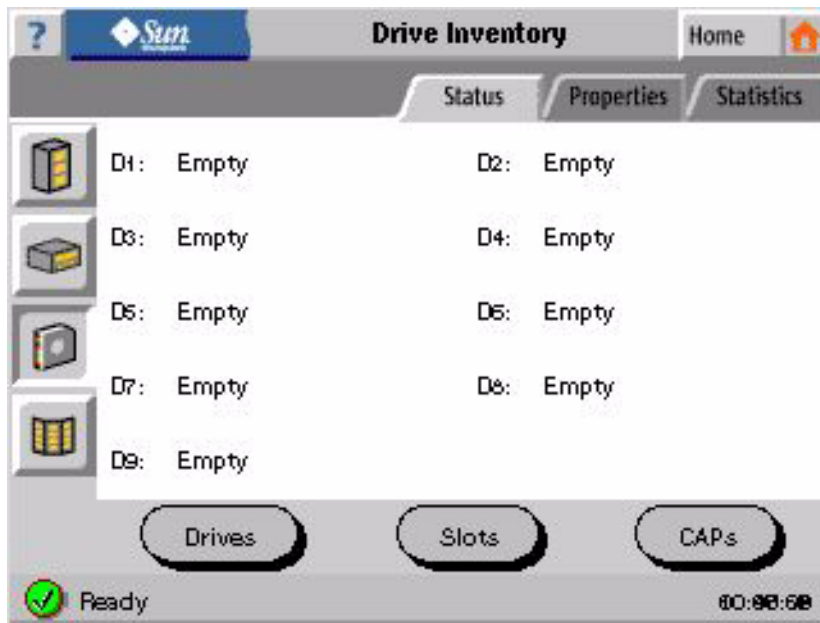
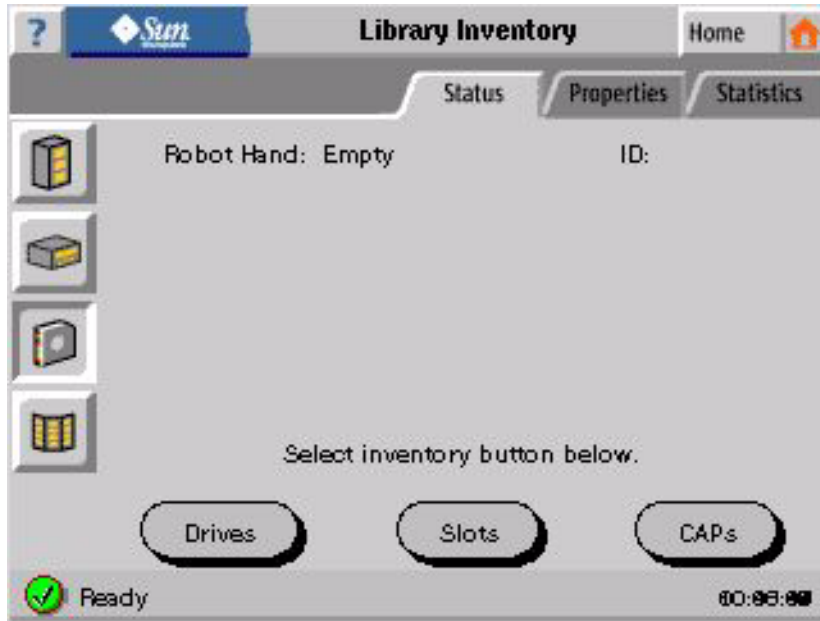




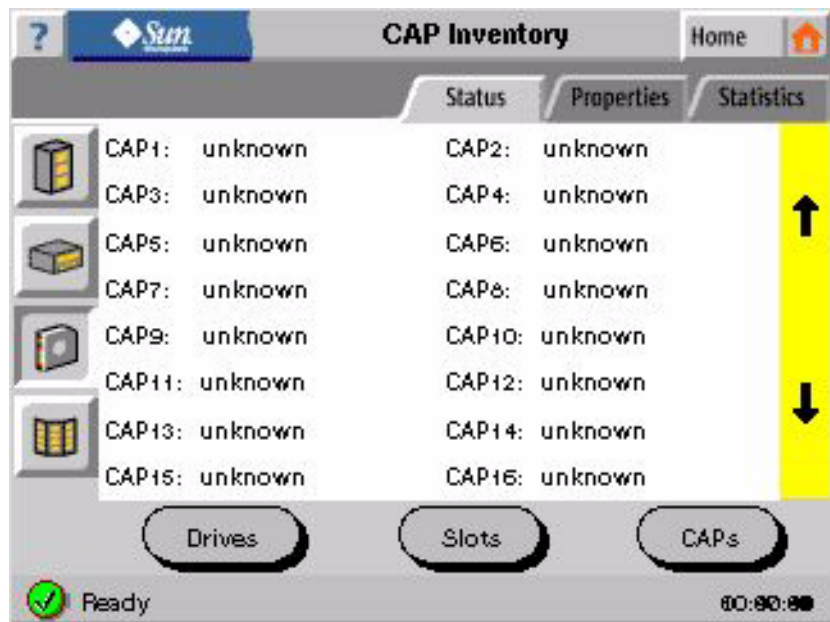
Details Cartridge Screens

The following screens display an example of what could appear when you touch the cartridge icon or corresponding words and each tab.

The initial screen displays the contents of the robot hand. Select the Drives, Slots, or CAPs button to display their inventory.



The Up or Down Arrow buttons display the other drive, slot, and CAP locations.



The following screens provide cleaning cartridge information. The Warning Threshold is the number of times a cleaning cartridge can be used before a warning message appears. Touch the warning threshold box to bring up the Set Warning Threshold screen.

When Auto Clean is enabled, the library automatically performs the process to clean a drive. Press the Auto Clean button to toggle Enabled and Disabled.



Cleaning Policy

Home

Status Properties Statistics

Media Type Warning Threshold

LTO: 44

DLT: 18

Set Threshold to 0 for no warning.

Auto Clean: Enabled

Save Changes Cancel Changes

Ready 00:00:00

Cleaning Cartridges

Home

Status Properties Statistics

Tape Label	Times Used	Threshold	Expired
CLNH01C1	1	0	no
CLNH01C1	0	0	yes

Ready 00:00:00

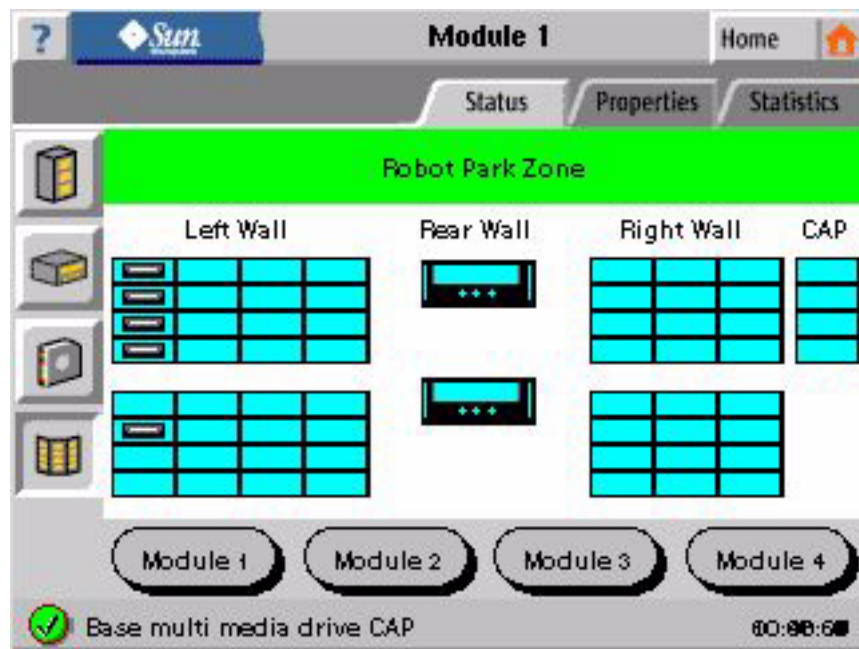
Details Module Map

The module map displays a graphical picture of the contents of the module with the slots broken into sections and each slot showing whether it is full or empty. Touch on one of the four module section buttons or the CAP button to display the details of the contents of that section.

The following screen displays an example of what could appear when you touch the Module Map icon or corresponding words. You can also get to the module map screens from the Home Screen by touching a module in the middle of the screen.

Touch the desired module button on the bottom to display its module map, or the drive picture in the center to display information about that drive.

This screen displays the contents of Module 1 (base module) in a four-module library.

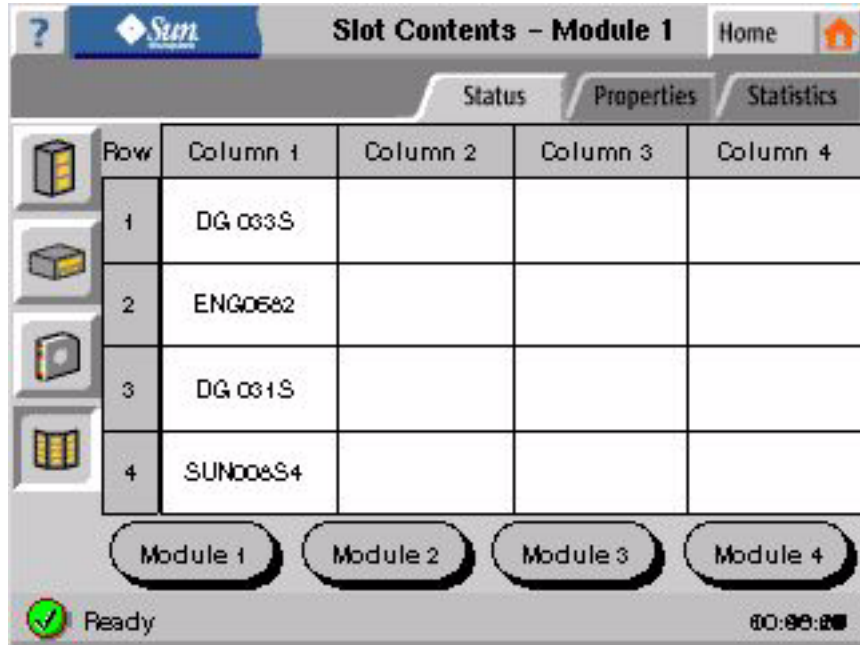


Details Slot Contents

The slot contents screen displays the detailed contents, including cartridge labels, of the selected section of a module. By touching the 4-row by 4-column upper left wall section button of the previous screen, the following screen appears.

You can touch a cartridge label, and the Move Cartridge screen appears, displaying the selected cartridge's address filled in for the source address.

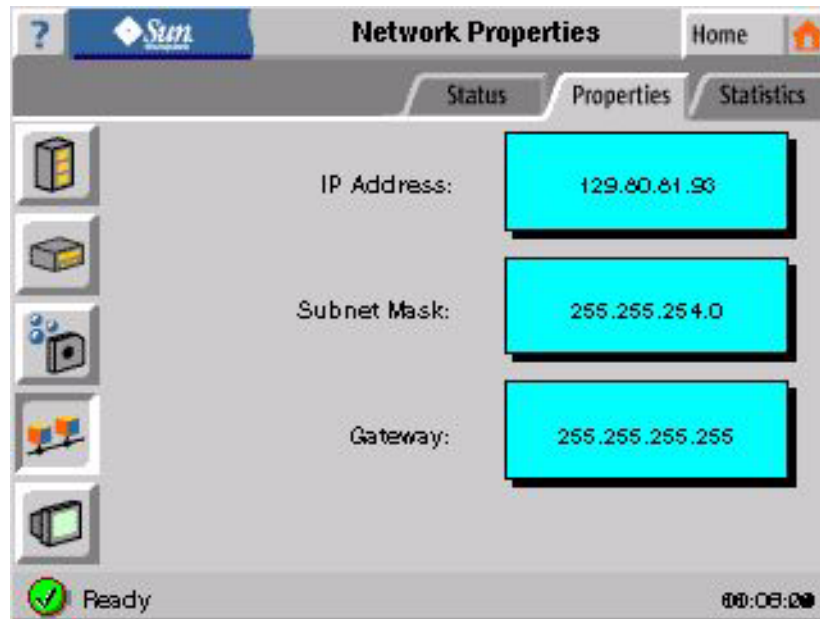
The Move Cartridge screen is not available to User: Status.



Details Network Properties Screens

The following screens display an example of what could appear when you touch the Network icon.

You can only change the properties if you logged in as User: Service.

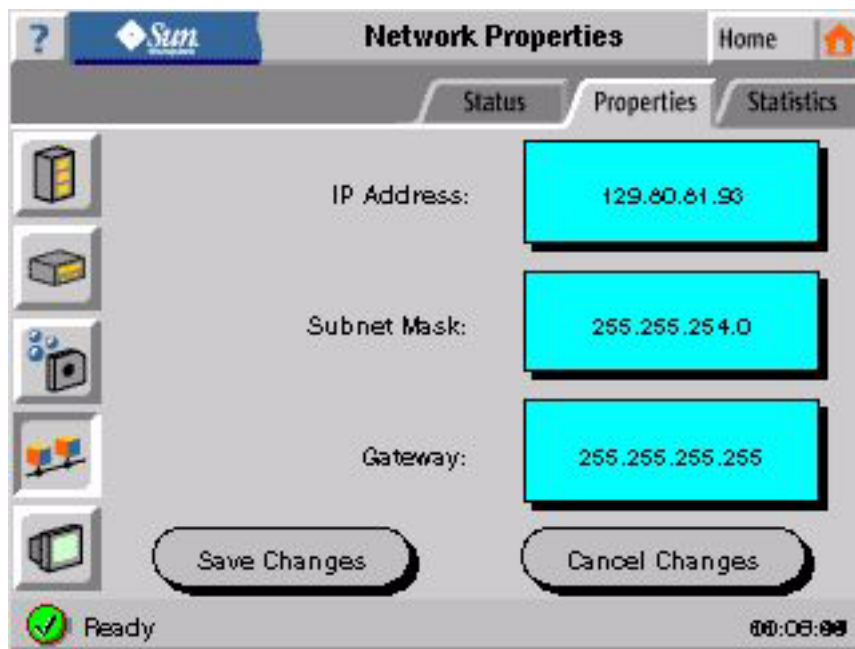
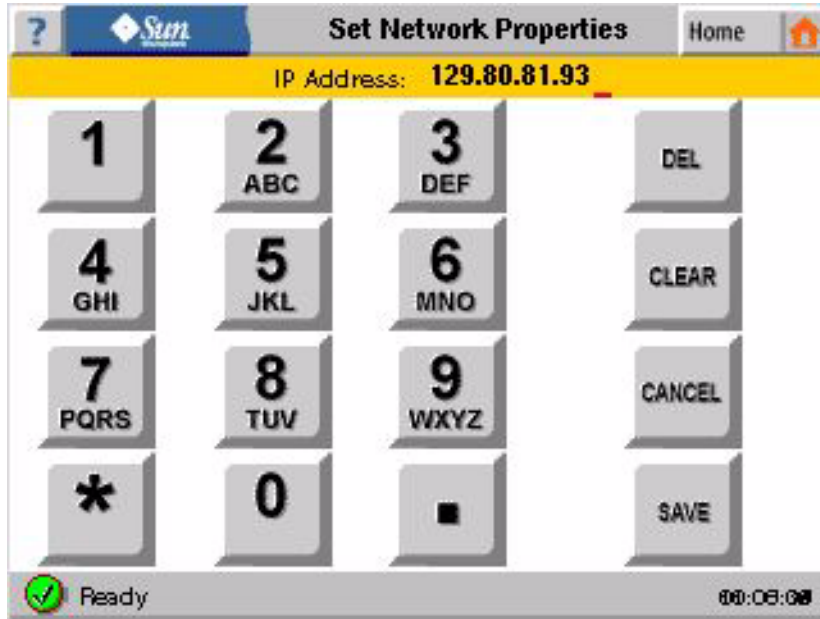


Touch the button of the value you want to change.

The following screen appears for the IP Address.

The Clear key deletes the current address and lets you enter a new one. Use the keypad to enter the numeric address. The "." separator is the key below the 9 key.

Use the Del key if you need to delete an entry.



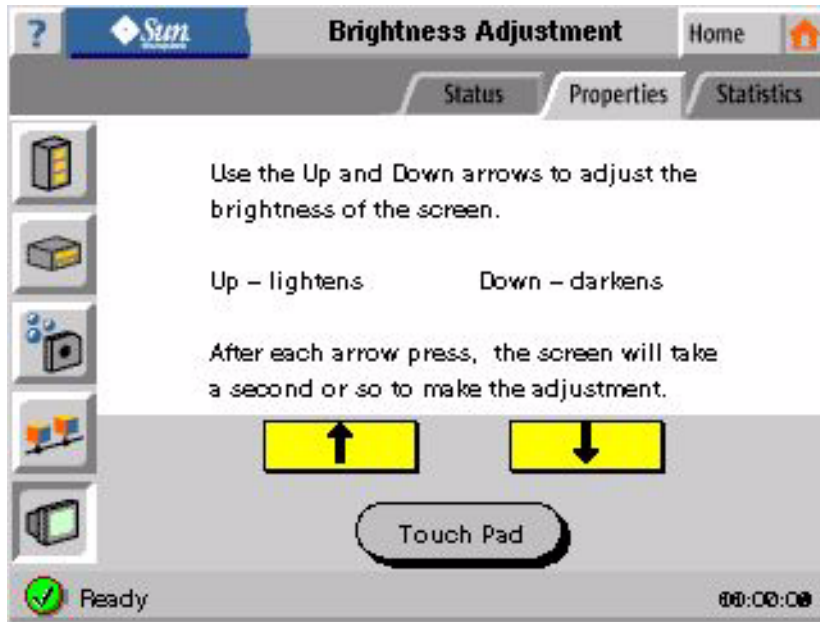
Details Operator Panel Properties Screens

The following screen displays the version of the operator panel firmware.

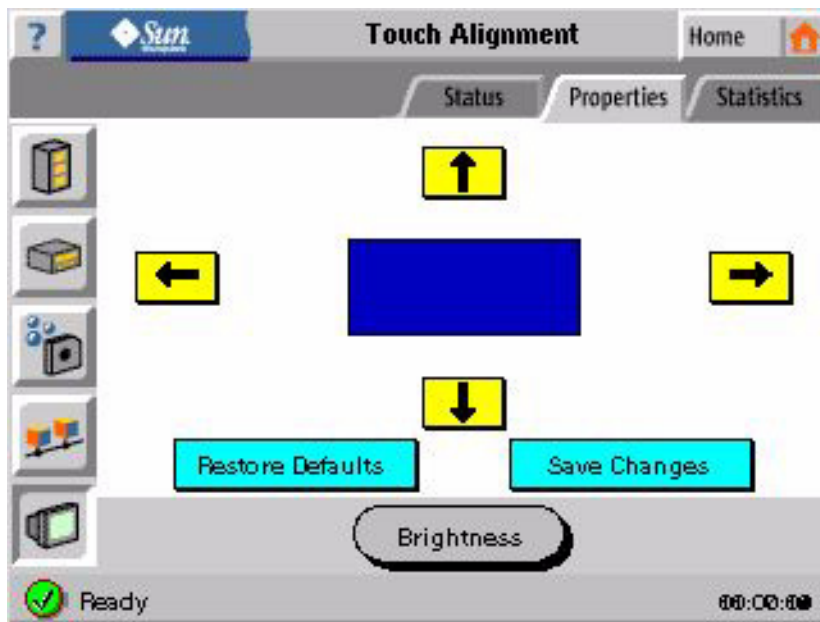
Touch the Brightness button to go to the screen where you can adjust the brightness of the screens. Touch the Touch Pad button to go to the screen where you can make other adjustments to the screens.



After you touch the Brightness button, use the arrow buttons to make the screen lighter or darker. The Up Arrow brightens the screen, reducing contrast. The Down Arrow darkens the screen, increasing contrast.



After you touch the Touch Pad button, touch the screen with your fingernail just outside of the rectangle in the center. Slowly drag your fingernail toward the rectangle. When your fingernail gets close to or into the rectangle, the border inverts. Use the arrow buttons to shift the touch alignment. No visual change occurs when using the arrow buttons.



Tools Screens

The Tools section is not available to User: Status.

The Tools screens provides the following options:

- Exerciser performs random cartridge moves.
- Search Cartridge finds a cartridge by its label (VOLID).
- Move Cartridge moves cartridges within the library.
- Empty Hand moves a cartridge from the robot hand.
- Clean Drive initiates the cleaning of a drive.

All the screens in the Tools set have a title bar at the top of the screen with the help icon (?) on the left, the screen title on the center, and the Home button on the right to take you back to the Home screen. The status bar on the bottom of the screen has the library functionality status on the left, and the time of day on the right.



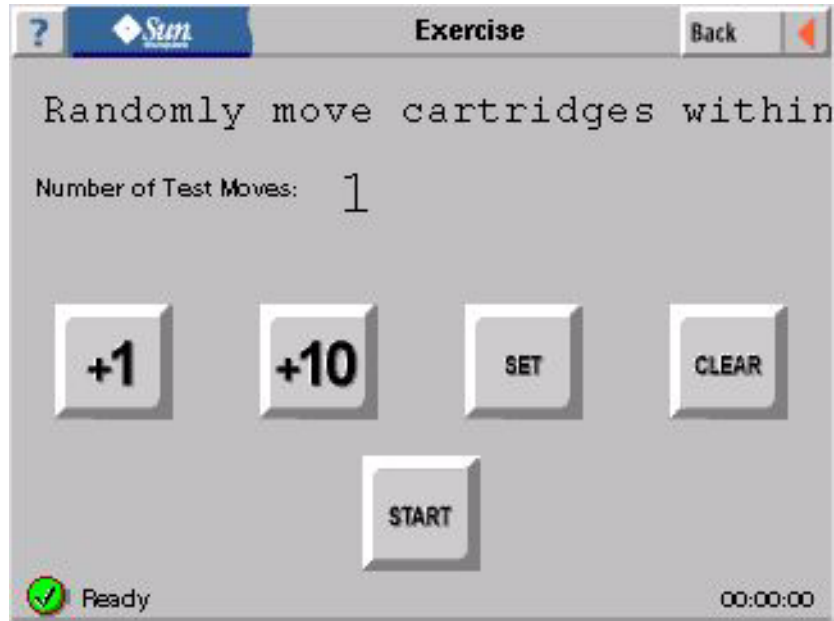
Tools Exercise Library Screen

Exercise Library Initiates a library diagnostic or demonstration exercise.

Enter the number of loops you wish the library to run. Each loop is a random move of a cartridge from one slot to another and back to its original slot.

Touch the Start key to start the moves.

Dialog windows appear, providing the exerciser status. Touch the Cancel button if you want to stop the exerciser. Press the OK button when the exerciser completed normally.

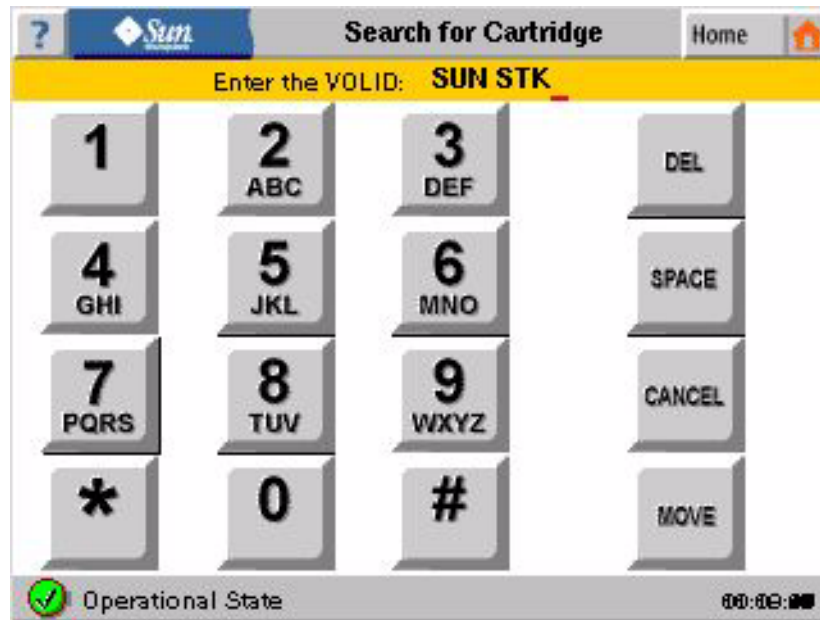


Tools Search Cartridge Screen

Search Cartridge finds a cartridge by its label or volume ID (VOLID). Enter the VOLID using the keypad. The keypad operates like a cell phone keypad: touch a key multiple times to cycle through the number and associated letters. The cursor stays under that character until you pause. Use the Del key if you need to delete an entry.

You must enter the full VOLID, including the domain and type designation.

Touch the Move button to start the search and, if a match is found, the Move Cartridge screen appears with the source address filled in with the matching cartridge's address.



Tools Move Cartridge Screen

Move Cartridge moves a cartridge within the library.

Enter the source and destination addresses:

- Choose the Type: Slot, Drive, or CAP.
- Choose the Module, Row, and Column. The choices in the address boxes are limited by the Type choice. For example, drives are always in column 9, CAPs in column 8.

Touch the corresponding selection box to change values.

Touch the Search by VOLID button to find a tape by its label.

Touch the Move button to start the move.

Touch the Cancel button to cancel the move.

The screenshot shows the 'Move Cartridge' screen with a Sun logo and a 'Back' button. The screen is divided into 'Source:' and 'Destination:' sections. Each section has four yellow selection boxes for 'Type', 'Module', 'Row', and 'Column'. The 'Source' section has 'Slot', '1', '1', and '1' selected. The 'Destination' section has 'Drive', '1', '1', and '9' selected. At the bottom, there are three buttons: 'Search by VOLID', 'Move', and 'Cancel'. A green checkmark icon and 'Operational State' are on the bottom left, and a timer '00:00:00' is on the bottom right.

Section	Type	Module	Row	Column
Source	Slot	1	1	1
Destination	Drive	1	1	9

Tools Empty Hand Screen

Empty Hand moves a cartridge out of the robot hand when a problem prevents a move from completing.

Enter the destination address in module, row, column format.

Touch the Move button to start the move.

Touch the Cancel button to cancel the move.

The screenshot shows a software interface titled "Empty Hand". At the top, there is a header bar with a question mark icon, the "Sun" logo, the title "Empty Hand", and a "Home" button with a house icon. Below the header, the text reads: "The hand contains a cartridge. Enter the destination where the cartridge should be placed." Underneath, the word "Destination:" is followed by four input fields: "Type" (containing "CAP"), "Module" (containing "2"), "Row" (containing "6"), and "Column" (containing "8"). At the bottom of the form, there are two buttons: "Move" and "Cancel". In the bottom left corner, there is a green checkmark icon and the word "Ready". In the bottom right corner, there is a digital clock showing "00:00:00".

Tools Clean Drive Screen

Clean Drive instructs the robot to get a cleaning cartridge and insert it into the designated drive.

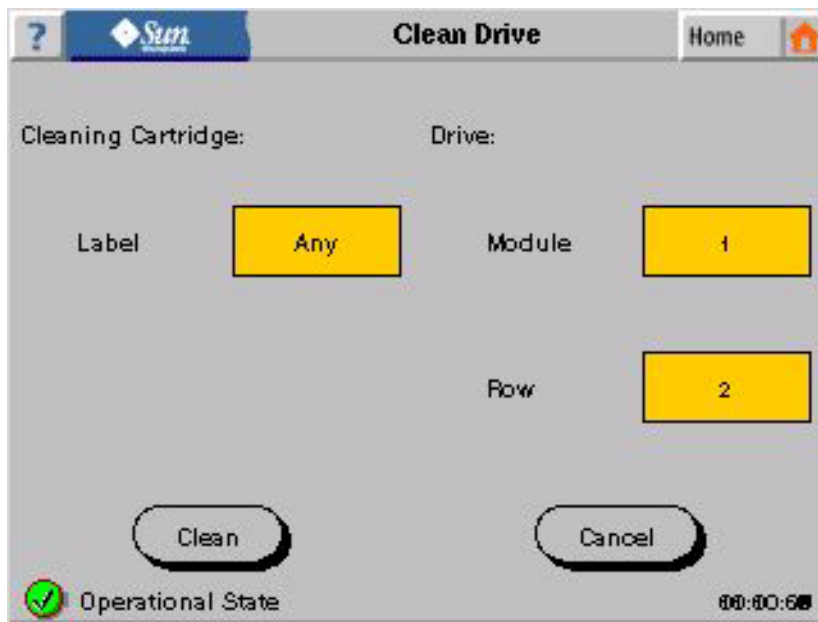
You can select the cleaning cartridge by touching the Label box. Choose Any to let the library choose a compatible cleaning cartridge, or toggle to select a specific drive-compatible cleaning cartridge.

Enter the address for the drive by its module and row.

Touch the corresponding selection box to change values.

Touch the Clean button to start the drive cleaning.

Touch the Cancel button to cancel the cleaning.



Operator Panel Quick Reference

The tables in this section can be used as a quick reference for the purpose and descriptions of the main operator panel screens. Some of the screens are accessed through buttons and tabs on other screens. Use the information in the previous pages to see all the screens and descriptions.

TABLE 0-1 Password Screens

Screen	Description
Operator Panel Login “Operator Panel Login Screens” on page 8	A series of screens are used to login. Touch the User box in the first login screen. Select the user type in the Select User screen. Touch the Password box in the next screen. Type the corresponding password using the keypad. The password must be between 4 and 9 numbers. You can also use the * and # characters. Use the Del key if you need to delete an entry.
Change Password “Change Password Screen” on page 13	To change a password, select the user type, then enter the current password for that user. Enter the new password twice as prompted.

TABLE 0-2 Details Statistics Screens

Screen	Description
Cleaning Cartridges “Details Cartridge Screens” on page 29	Displays information about a cleaning cartridge: label, number of times it has been used, warning threshold, and if the cartridge is expired or not.
Drive Statistics “Details Drive Screens” on page 25	Displays the vital statistics of the specified drive. Up or Down buttons display other drives.
Library Statistics “Details Library Screens” on page 18	Displays the library's main statistics.

TABLE 0-3 Details Status Screens

Screen	Description
CAP Inventory “Details Cartridge Screens” on page 29	Displays the cartridges in the CAP slots.
Drive Inventory “Details Cartridge Screens” on page 29	Displays the cartridges currently loaded in drives.
Drive Status “Details Drive Screens” on page 25	Displays the status of all installed drives. The icons display the general status: Good (green), Warning (yellow), Error (red), or Unknown (blue). Touch the icon to see the properties for that drive.
Library Inventory “Details Cartridge Screens” on page 29	Displays the Robot Hand status. Press the buttons for Drives, Slots and CAPs for their status.
Library Status “Details Library Screens” on page 18	Displays the library’s status. Status button displays the library’s functionality status, drive and robot initialization status, number of cleaning cartridges, and number of occupied slots.
Slot Contents “Details Slot Contents” on page 34	Displays the contents of the slots in the selected section of a module. Column numbers are at the top; row numbers are on the left.
Module Map “Details Module Map” on page 33	Displays the module map of the selected module. Slots are displayed as empty or containing a tape. Touch the desired slot button to see the tape labels. Touch the drive button to see the status of a drive.
Slot Inventory “Details Cartridge Screens” on page 29	Displays the cartridges in the storage slots.

TABLE 0-4 Details Properties Screens

Screen	Description
Brightness Adjustment “Details Operator Panel Properties Screens” on page 37	Adjusts the brightness of the operator panel. Up Arrow brightens the screen, reducing contrast. Down Arrow darkens the screen, increasing contrast.
Cleaning Policy “Details Cartridge Screens” on page 29	Displays and allows enabling and disabling of Auto Clean Displays and allows setting of the warning threshold for each type of cleaning media (LTO, SDLT). When a cleaning cartridge has been used more than the number of times set by the warning threshold, a warning message is displayed.
Drive Properties “Details Drive Screens” on page 25	Displays the properties of the specified drive. Up or Down buttons display other drives. Reboot button allows you to reboot the selected drive. Configure button shows the configuration of the specified drive.

TABLE 0-4 Details Properties Screens (Continued)

Screen	Description
Library Properties “Details Library Screens” on page 18	Displays the library's properties and settings. Properties button displays the main properties of the library. Settings button displays the configurable settings for reserved slots, restricted slots, audit option, and host and operator panel views of the tape labels. Reboot button allows you to reboot the library. Configure button shows the configuration of the library. Set Date/Time button allows the <i>User: Service</i> to set the time and date.
Network Properties “Details Network Properties Screens” on page 35	Displays the library's Network IP address, Subnet Mask and Gateway address. Touch the corresponding button to enter the addresses. <i>Only the User: Service may enter network properties.</i>
Operator Panel Properties “Details Operator Panel Properties Screens” on page 37	Displays the firmware version for the panel. Brightness button displays the Brightness Adjustment screen. Touch Pad button displays the Touch Alignment screen.
Touch Pad Alignment “Details Operator Panel Properties Screens” on page 37	Makes adjustments to the touch screen. Touch the screen with a fingernail just outside of the rectangle in the center. Slowly drag your fingernail toward the rectangle. When your fingernail gets close to or into the rectangle, the border inverts. Use the arrow buttons to shift the touch alignment. No visual change occurs when using the arrow buttons.

This table lists the options available from the Tools screens. *These screens are not available for User: Status.*

TABLE 0-5 Operator Panel Tools Screens

Screen	Description
Clean Drive “Tools Clean Drive Screen” on page 44	Performs drive cleaning. Select the cleaning cartridge to use by touching the Label box. Choose Any to let the library choose any compatible cleaning cartridge. Enter the address for the drive by its module and row. Touch the corresponding selection box to change values. Touch the Clean button to start the drive cleaning.
Empty Hand “Tools Empty Hand Screen” on page 43	Moves a cartridge out of the robot hand when a problem prevents a move from completing. Enter the destination address in module, row, column format. Touch the corresponding selection box to change values. Select a destination type of Drive or CAP to limit addresses to only those that correspond to that type. Touch the Move button to start the move.

TABLE 0-5 Operator Panel Tools Screens (Continued)

Screen	Description
Exercise Library "Tools Exercise Library Screen" on page 40	<p>Initiates a library diagnostic or demonstration exercise.</p> <p>Enter the number of loops you wish the library to run. Each loop is a random move of a cartridge from one slot to another and back to its original slot.</p> <p>Touch the Start key to start the moves. A dialog window displays the number of loops completed and provides a button to cancel the exercise.</p>
Move Cartridge "Tools Move Cartridge Screen" on page 42	<p>Moves cartridges within the library. Enter the source and destination addresses in module, row, column format.</p> <p>Touch the corresponding selection box to change values.</p> <p>Select a source or destination type of Drive or CAP to limit addresses to only those that correspond to that type.</p> <p>Touch the Move button to start the move.</p> <p>Select the Search by VOLID button to find a tape by its label.</p>
Search Cartridge "Tools Search Cartridge Screen" on page 41	<p>Finds a cartridge by its label or volume ID (VOLID). Enter the VOLID using the keypad. The keypad operates like a cell phone keypad: touch a key multiple times to cycle through the number and associated letters. The cursor stays under that character until you pause. Use the Del key if you need to delete an entry.</p> <p>You must enter the full VOLID, including the domain and type designation.</p> <p>Touch the Move button to start the search and, if a match is found, the Move Cartridge screen appears with the source address filled in with the matching cartridge's address.</p>

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