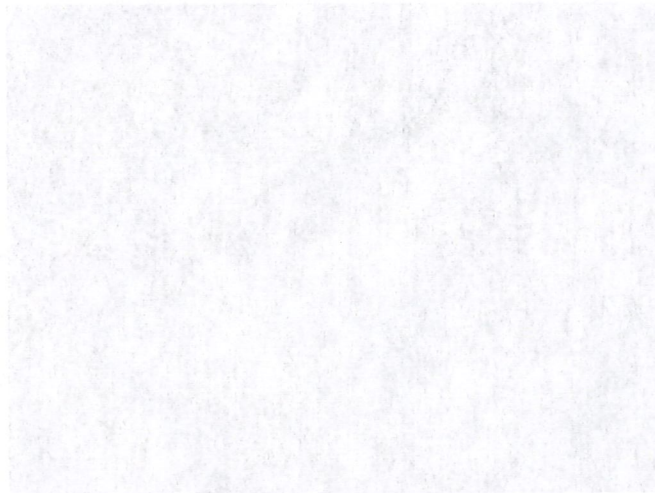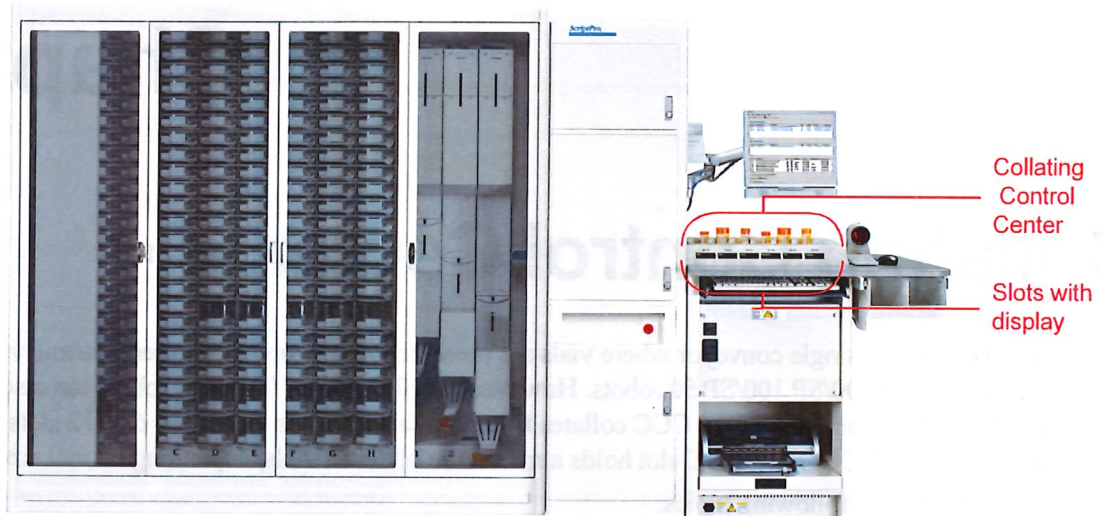# Chapter 8

Collating Control Center

Open Control Centers, a single conveyor where vials are presented for the operator to retrieve and verify, are a standard feature for SP 200/SP 100/SP 50 robots. However, the SP 200/SP 100/SP 50 robots can also be equipped with a Collating Control Center (CCC). The CCC collates filled and labeled vials into either 6 or 12 slots, depending on the size of the pharmacy's CCC. Each CCC slot holds a maximum of seven vials, depending on vial size and type.

This chapter includes the following topics:

▶ **Collating Control Center**
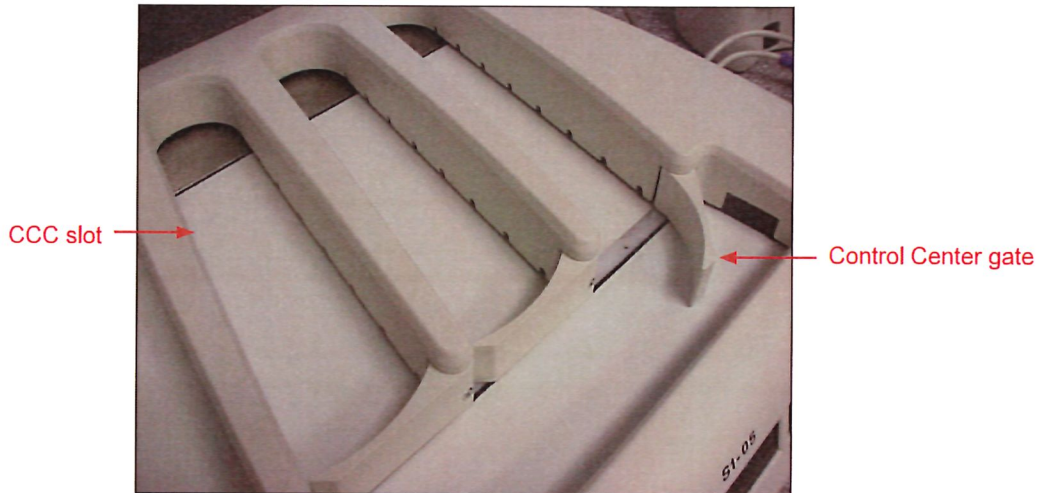
▶ **Control Center View Tab**

Collating Control Center

SP 200 with Collating Control Center

CCC Gate

The CCC gate automatically opens when a vial reaches a CCC slot. The gate closes after the vial has passed through the slot.
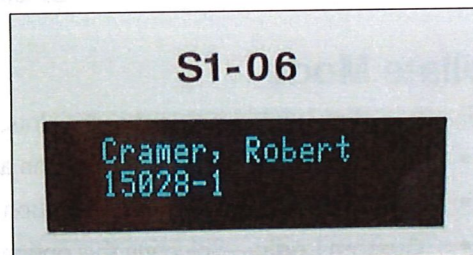

CCC Gate

CCC Slot Displays

The display on the front of the CCC slot is configurable. The system can show patient names, letters of the alphabet, or priority groups such as **Nursing Home** or **Delivery**. Below are examples of slot displays.

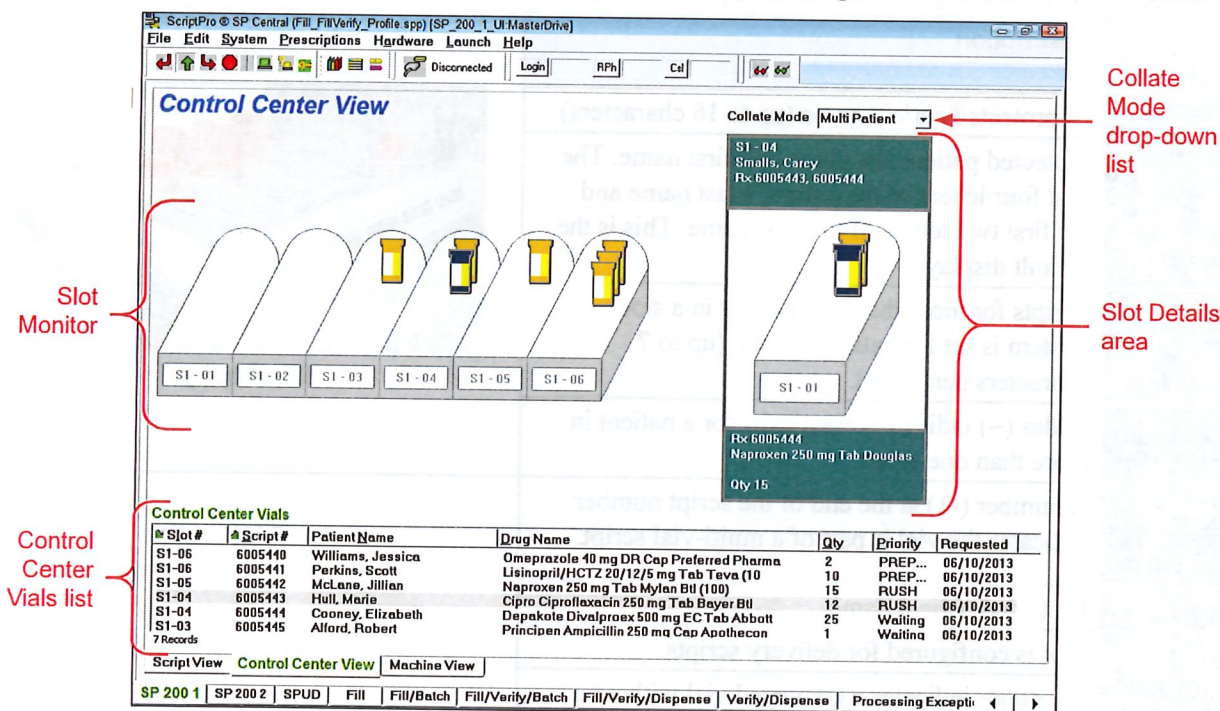| Slot Display Examples	Description	
Cramer	Unprotected patient name (up to 16 characters)	 ***Slot Display***
CRAM, Ro	Protected patient last name and first name. The first four letters of the patient's last name and the first two letters of the first name. This is the default display.	
CRAMER JONES	Scripts for more than one patient in a slot. System is set for patient mixing (up to 7 characters per name).	
CRAMER~	Tildes (~) indicate scripts exist for a patient in more than one slot.	
CRAMER 11236-1	A number (-1) at the end of the script number indicates the vial is part of a multi-vial script.	
CRA***	Protected patient name.	
DELIVERY	Slot is configured for delivery scripts.	
<n/a>	An <n/a> indicates a conveyed vial without a patient name or script number, such as RCM purge or Cancelled Label.	
CRAMER	A fully lit background and patient name in black letters indicates there are currently no remaining **Pending** or **In Process** scripts for the patient. In Build Series 08, this display is configured if: • The **Single Patient** option is selected from the **Collate Mode** drop-down list on the **Control Center View** tab. For more information, see *Collate Mode* on page 8-4. **AND** • The **Highlight background when all vials for patient are filled** check box is selected in the **Hardware Data** dialog box, **Robotic Machines** page. For more information, see *Robotic Machines Page* on page 7-8.	***Slot Display***

Script placement on the CCC begins in the far right slot and continues to the left. The display screen shows up to 16 characters of the patient name and script number on both sides of the CCC. If the patient name is more than 16 characters, the name truncates. If the system is configured to store vials for different patients in the same slot, the display screen shows multiple patient names. The first name displayed matches the first vial to enter the slot.

NOTE: After a vial has been removed from a slot, it should not be returned to the slot.

Control Center View Tab

The **Control Center View** tab on the robot page displays elements pertaining to the vial location in the slots.

SP 200 Page, Control Center View Tab
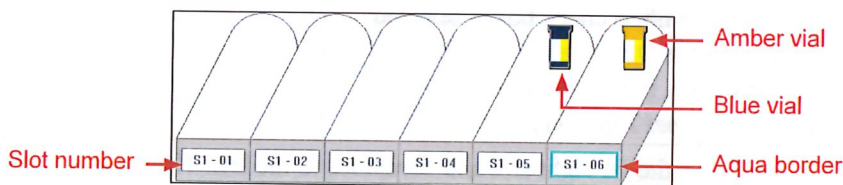
Collate Mode

To determine how vials are stored in the slots, the Collate Mode drop-down list is used. Options are:

- **Multi Patient**—Selecting this option allows patient mixing.
- **Single Patient**—Selecting this option disallows patient mixing.
- **Custom Logic**—Selecting this option lets the system use previously established Storage Logic.

NOTE: For information on setting default Custom Options see *Collating Control Center (CCC) Page* on page 5-9.

Slot Monitor

The Slot Monitor displays all slots in the CCC. Vials are present until they are scanned for visual verification.
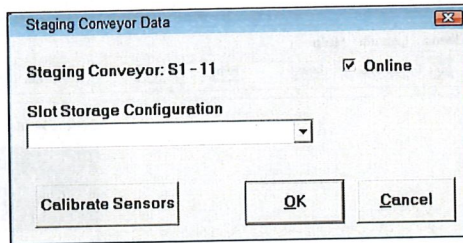

Slot Monitor

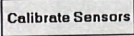| Color	Vial Status
Amber Vial	Indicates a vial is present in a slot.
Blue Vial	Indicates a vial has been selected for viewing in the Slot Details area.
Aqua Border	Indicates additional vials remain for the same patient or script number.

If retrieving a vial for a patient or script number and additional vials need to be retrieved, the slots with additional vials appear outlined in aqua on the slot monitor. Each slot is identified with a number, for example, S1-01.

Troubleshooting a slot

If a slot does not recognize a vial on the conveyor, the slot must be recalibrated. If recalibrating does not resolve the issue, take the slot offline while all other slots remain operational. Slot recalibration occurs from the **Staging Conveyor Data** dialog box, which is accessed from the Slot Monitor shortcut menu.
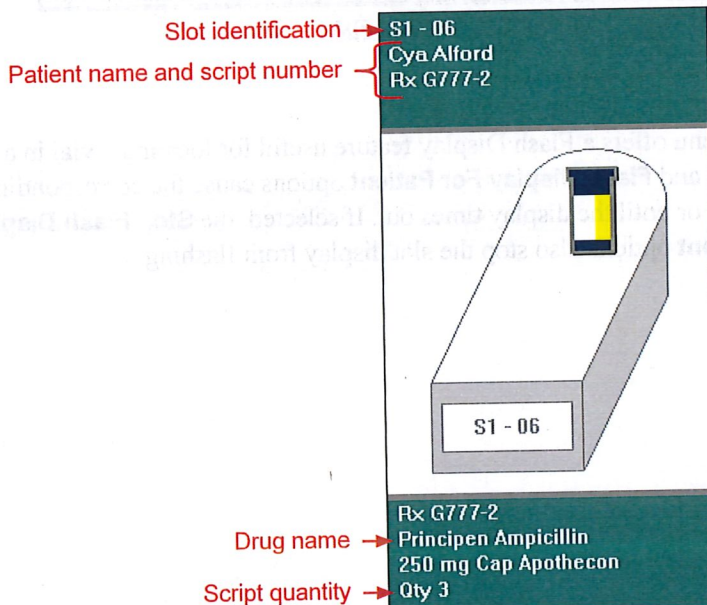

Staging Conveyor Data Dialog Box

Item	Description
Staging Conveyor	This read-only area displays the CCC slot number.
Online	This check box, if selected, indicates the slot is online and available to hold vials
Allow Mixing	This check box, if selected, allows patient mixing in the slot.
Slot Storage Configuration	This drop-down list displays the configuration of how vials are stored in the slots. The list options are Default and blank.
Calibrate Sensors	This button, when selected, recalibrates the slot sensors. It is used in instances when the slot does not recognize a vial is on the conveyor.

Slot Details Area

The Slot Details area displays information about a vial's drug contents. Select the vial to view the information.

Slot Details Area

Control Center Vials List

The Control Center Vials list displays all vials filled by the robot, which are also present in a slot. The slot number, script number, patient name, drug name, script quantity, priority group, and the date the script entered the system display in the list. The list can be sorted ascending or descending, by each column heading.

SP 200 Page, Control Center View Tab

Flash Display

The Control Center Vials list shortcut menu offers a Flash Display feature useful for locating a vial in a slot. If selected, the **Flash Display For Script** and **Flash Display For Patient** options cause the corresponding slot display to flash until the vial is retrieved, or until the display times out. If selected, the **Stop Flash Display For Script** and **Stop Flash Display For Patient** options also stop the slot display from flashing