

## Purpose

*Low-fidelity Wireframes depict the user experience at the page level. They serve to complement the interaction design document by providing a finer level of detail in terms of application behavior.*

*They show rough layout and functionality—what's on each page, and proposed solutions to the problems posed by the project requirements.*

*They are not meant to depict final layout or look and feel details.*

See also:

**Common UI**  
*explanations of common behavior across the app*

**Interaction Design**  
*High-level task flow & navigation*

**Style Guide**  
*code-specific UI standards*

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1.1 Bulk Label Printing: Print Queue

New Print Job

### Print Jobs

- ▶ **Pine** 0 labels Idle
- ▼ **Oak** 172 labels **Printing**

SKU	UOM	Style	User	Sent	Status	# Labels	Options
8754595	Case	—	Joe Smith	03-11-2005 03:21 PM	Printing	23/27	Cancel
8754400	Case	—	Joe Smith	03-11-2005 03:25 PM	Queued	0/104	<a href="#">Cancel</a>
8754541	Case	Silver	Susan Ogg	03-11-2005 03:32 PM	Queued	0/64	<a href="#">Cancel</a>

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- ▶ **Cedar** 0 labels Idle
- ▼ **Redwood** 0 labels Idle

There are no jobs pending for this printer.

- ▶ **Birch** 261 labels Stopped

Tiles: **Print Jobs A, New Print Job**

The "User" column shows the first & last name of the user.

Next to the printer name is the total number of labels remaining to be printed in all jobs on that printer.

Per job, the # labels column shows the number remaining out of the total.

Q: Given the short time frame within which printing takes place, should "Cancel" take effect immediately, without a confirmation dialog?

1.2 Bulk Label Printing: New Print Job

New Print Job

▶ Pine 0 labels Idle

▼ Oak 172 labels Printing

SKU	UOM	Style	User	Sent	Status	# Labels	Options
—	—	—	Joe	03-11-2005 03:21 PM	Printing	23/27	—
—	—	—	Joe	03-11-2005 03:25 PM	Queued	0/104	<a href="#">Cancel</a>
Silver	—	—	Susan	03-11-2005 03:32 PM	Queued	0/64	<a href="#">Cancel</a>

**New Print Job**

Printer: OAK

SKU	UOM	Style Code	# Labels	Options
<input type="text"/>	Case	<input type="text"/>	<input type="text"/>	—

Add Line Item

Print Cancel

**New Print Job**

Printer: OAK

SKU	UOM	Style Code	# Labels	Options
<input type="text" value="0045890"/>	Case	<input type="text" value="Red"/>	<input type="text" value="12"/>	<a href="#">Remove</a>
<input type="text" value="0045801"/>	Case	<input type="text"/>	<input type="text" value="24"/>	<a href="#">Remove</a>
<input type="text" value="0034890"/>	Case	<input type="text"/>	<input type="text" value="6"/>	<a href="#">Remove</a>

Add Line Item

Print Cancel

Tiles:New Print Job

2.1 Rework Scenario: Start Screen

Start reader

2.2

Start Rework

*"Start" needs to be a discrete step (rather than having container identification trigger the start of the scenario) because the reader will need to be on in order to identify a pallet.*

Tiles: **Start Rework**

2.2 Rework Scenario: Specify Container

Container:

2.3 Enter

Shut off reader 2.1 Cancel Rework

Tiles: **Get Container, Cancel Rework**

2.3 Rework Scenario: Main Loop, Initial Display

Manual Add:

Enter

Manual Remove:

Enter

Cancel Rework

Close Container

Rework Container: sssc:7630043.238521

Product				System	Reads	
SKU	Style	UOM	Desc.	Qty	In	Not In
0006002	—	Case	12-pk Nu Shav	<u>24</u>	0	0
0006003	—	Case	24-pk Nu Shav	<u>24</u>	0	0
0006734	Red	Case	Nu Razor Promo	<u>24</u>	0	0
0007452	—	Case	Dbl Nu Razor Pro	<u>48</u>	0	0
0001019	Clear	Case	Nu Razor Promo	<u>16</u>	0	0
<i>Unknown</i>						0
<b>Total</b>				<b>136</b>	<b>0</b>	<b>0</b>

reload --- Enter

reload --- Enter

Shut off reader --- 2.1 --- Cancel Rework

Save Sys. Container Changes, shut off reader --- 2.1 --- Close Container

Manual Add & Remove affect counts the same way that reads do.

SKUs and expected quantities for this container are now displayed.

Tiles: Manual Add, Manual Remove, Cancel Rework, Close Container, Container EPC, Rework Table

2.4 Rework Scenario: Main Loop, After Scanning All Cases

<p>Manual Add:</p> <input type="text"/> <p>Enter</p> <p>Manual Remove:</p> <input type="text"/> <p>Enter</p> <p>Cancel Rework</p> <p>Close Container</p>	<p style="background-color: #f0f0f0; padding: 5px;">Rework Container: ssc:7630043.238521</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: left;">Product</th> <th style="text-align: right;">System</th> <th colspan="2" style="text-align: right;">Reads</th> </tr> <tr> <th style="text-align: left;">SKU</th> <th style="text-align: left;">Style</th> <th style="text-align: left;">UOM</th> <th style="text-align: left;">Desc.</th> <th style="text-align: right;">Qty</th> <th style="text-align: right;">In</th> <th style="text-align: right;">Not In</th> </tr> </thead> <tbody> <tr> <td>0006002</td> <td>—</td> <td>Case</td> <td>12-pk Nu Shav</td> <td style="text-align: right;"><u>24</u></td> <td style="text-align: right;"><u>24</u></td> <td style="text-align: right;">0</td> </tr> <tr> <td>0006003</td> <td>—</td> <td>Case</td> <td>24-pk Nu Shav</td> <td style="text-align: right;"><u>24</u></td> <td style="text-align: right;"><u>24</u></td> <td style="text-align: right;">0</td> </tr> <tr> <td>0006734</td> <td>Red</td> <td>Case</td> <td>Nu Razor Promo</td> <td style="text-align: right;"><u>24</u></td> <td style="text-align: right;"><u>24</u></td> <td style="text-align: right;">0</td> </tr> <tr> <td>0007452</td> <td>—</td> <td>Case</td> <td>Dbl Nu Razor Pro</td> <td style="text-align: right;"><u>48</u></td> <td style="text-align: right;"><u>24</u></td> <td style="text-align: right;">0</td> </tr> <tr> <td>0001019</td> <td>Clear</td> <td>Case</td> <td>Nu Razor Promo</td> <td style="text-align: right;"><u>16</u></td> <td style="text-align: right;"><u>15</u></td> <td style="text-align: right;"><u>1</u></td> </tr> <tr> <td colspan="5"><i>Unknown</i></td> <td></td> <td style="text-align: right;"><u>3</u></td> </tr> <tr> <td colspan="4"><b>Total</b></td> <td style="text-align: right;"><b>136</b></td> <td style="text-align: right;"><b>111</b></td> <td style="text-align: right;"><b>4</b></td> </tr> </tbody> </table> <p style="text-align: right; margin-top: 20px;"> <input type="button" value="Clear Reads"/> </p> <p style="text-align: right; margin-top: 5px;"><i>Zeroes out all counts under "Reads."</i></p>	Product				System	Reads		SKU	Style	UOM	Desc.	Qty	In	Not In	0006002	—	Case	12-pk Nu Shav	<u>24</u>	<u>24</u>	0	0006003	—	Case	24-pk Nu Shav	<u>24</u>	<u>24</u>	0	0006734	Red	Case	Nu Razor Promo	<u>24</u>	<u>24</u>	0	0007452	—	Case	Dbl Nu Razor Pro	<u>48</u>	<u>24</u>	0	0001019	Clear	Case	Nu Razor Promo	<u>16</u>	<u>15</u>	<u>1</u>	<i>Unknown</i>						<u>3</u>	<b>Total</b>				<b>136</b>	<b>111</b>	<b>4</b>
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*Scans for the correct SKU but the wrong EPC (right product, wrong instance) show up in the "Not In" column.*

*Scans for the incorrect SKU show up in the "unknown" row.*

All quantities are linked, except for totals and zeroes. Link is to a popup window showing list of individual EPCs (see 2.5)

2.5 EPC Details (popup windows)

Tiles: **System EPCs,**  
**EPCs in Container,**  
**EPCs Not in Container**

Manual Add: <input type="text"/> <input type="button" value="Enter"/>			<table border="1"> <thead> <tr> <th colspan="3">Product</th> <th>System Container</th> <th colspan="2">Reads</th> </tr> <tr> <th>SKU</th> <th>UOM</th> <th>Style</th> <th>Quantity</th> <th>In</th> <th>Not In</th> </tr> </thead> <tbody> <tr> <td>6734</td> <td>Case</td> <td>—</td> <td>24</td> <td>24</td> <td>0</td> </tr> <tr> <td>6734</td> <td>Case</td> <td>—</td> <td>24</td> <td>24</td> <td>0</td> </tr> <tr> <td>6734</td> <td>Case</td> <td>Red</td> <td>24</td> <td>24</td> <td>0</td> </tr> <tr> <td>6734</td> <td>Case</td> <td>—</td> <td>48</td> <td>24</td> <td>0</td> </tr> <tr> <td colspan="3"></td> <td></td> <td>15</td> <td>1</td> </tr> <tr> <td colspan="3"></td> <td></td> <td>3</td> <td></td> </tr> <tr> <td colspan="3"></td> <td>111</td> <td>4</td> <td></td> </tr> </tbody> </table>				Product			System Container	Reads		SKU	UOM	Style	Quantity	In	Not In	6734	Case	—	24	24	0	6734	Case	—	24	24	0	6734	Case	Red	24	24	0	6734	Case	—	48	24	0					15	1					3					111	4	
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Popups should show SKU, UOM, & Style code.

**System EPCs: SKU 0006734**

876746500001A365303

876746500001A365312

876746500001A3651998

(etc)

876746500001A366002

**EPCs In Container: SKU 0001019**

**Select All/None**

8767464689900965531

8767464689900965032

8767464689900965009

(etc)

8767464689900966014

**EPCs Not In Container: SKU 0001019**

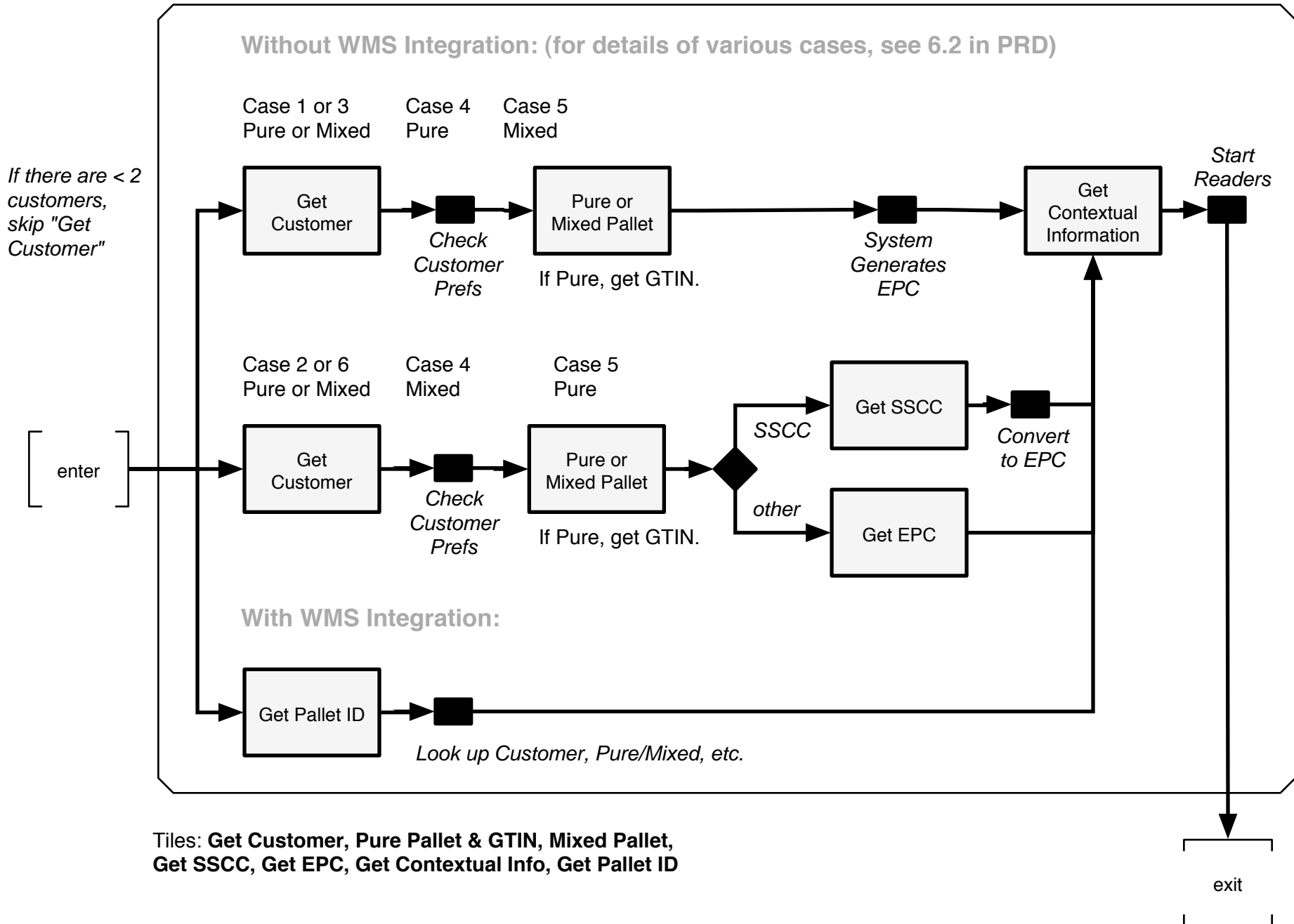
87674687347753B0010

**Important:**  
For behavior of *Select All/*  
*Select None* Checkboxes, see  
**Common UI Behaviors**  
Document.

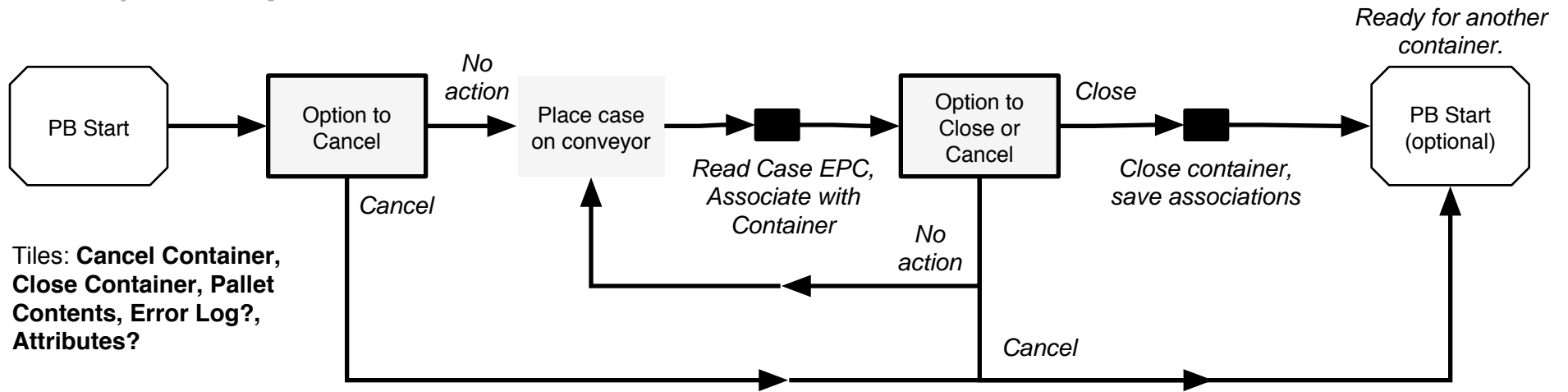
*Select All/None* only  
appears if > 1 item.

3.1 Pallet Build: Start

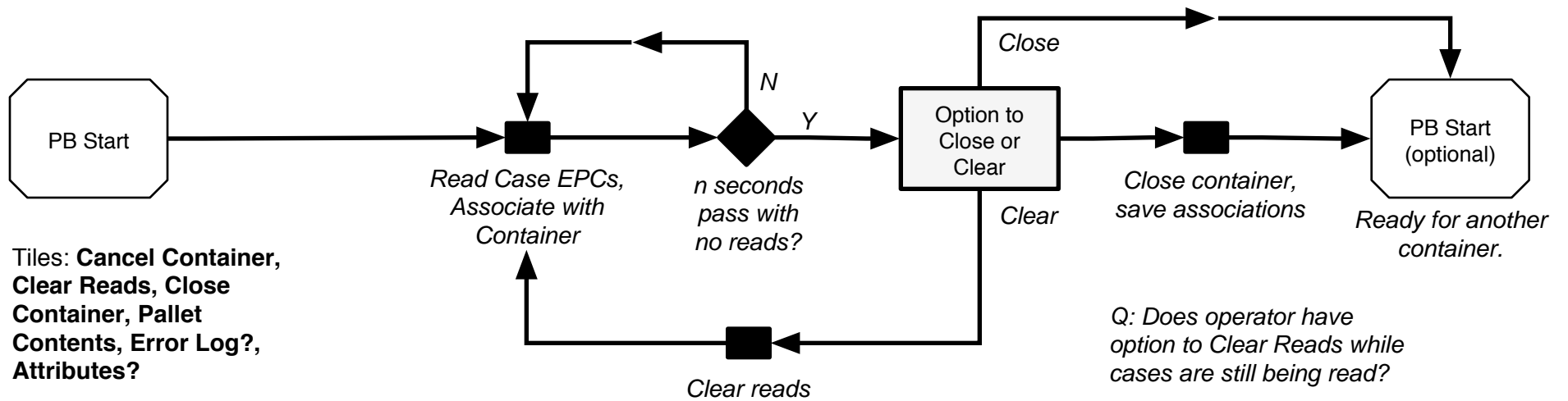
*Note: Flows do not exhaustively include all error conditions or system actions*



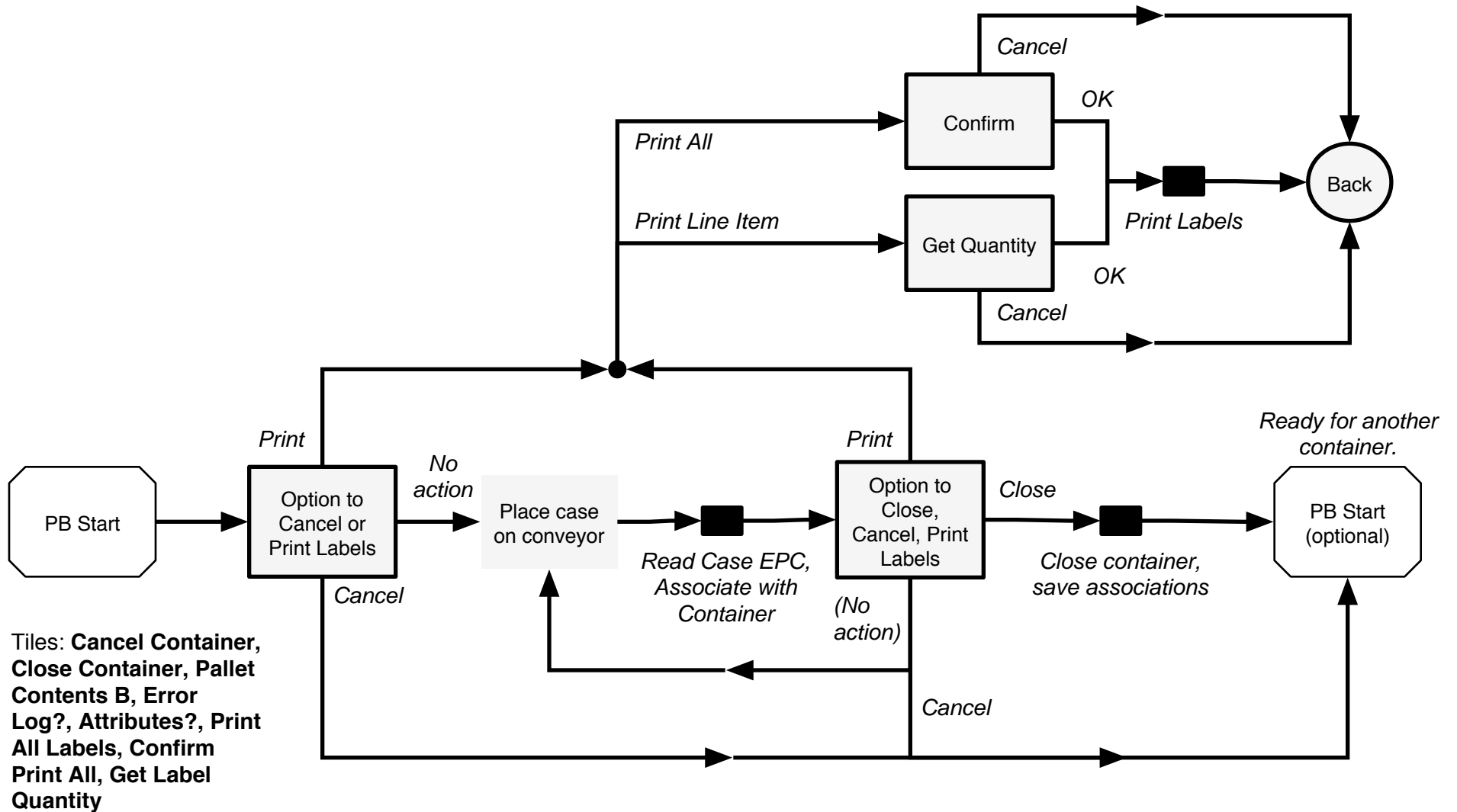
3.2 Simple Conveyor Pallet Build



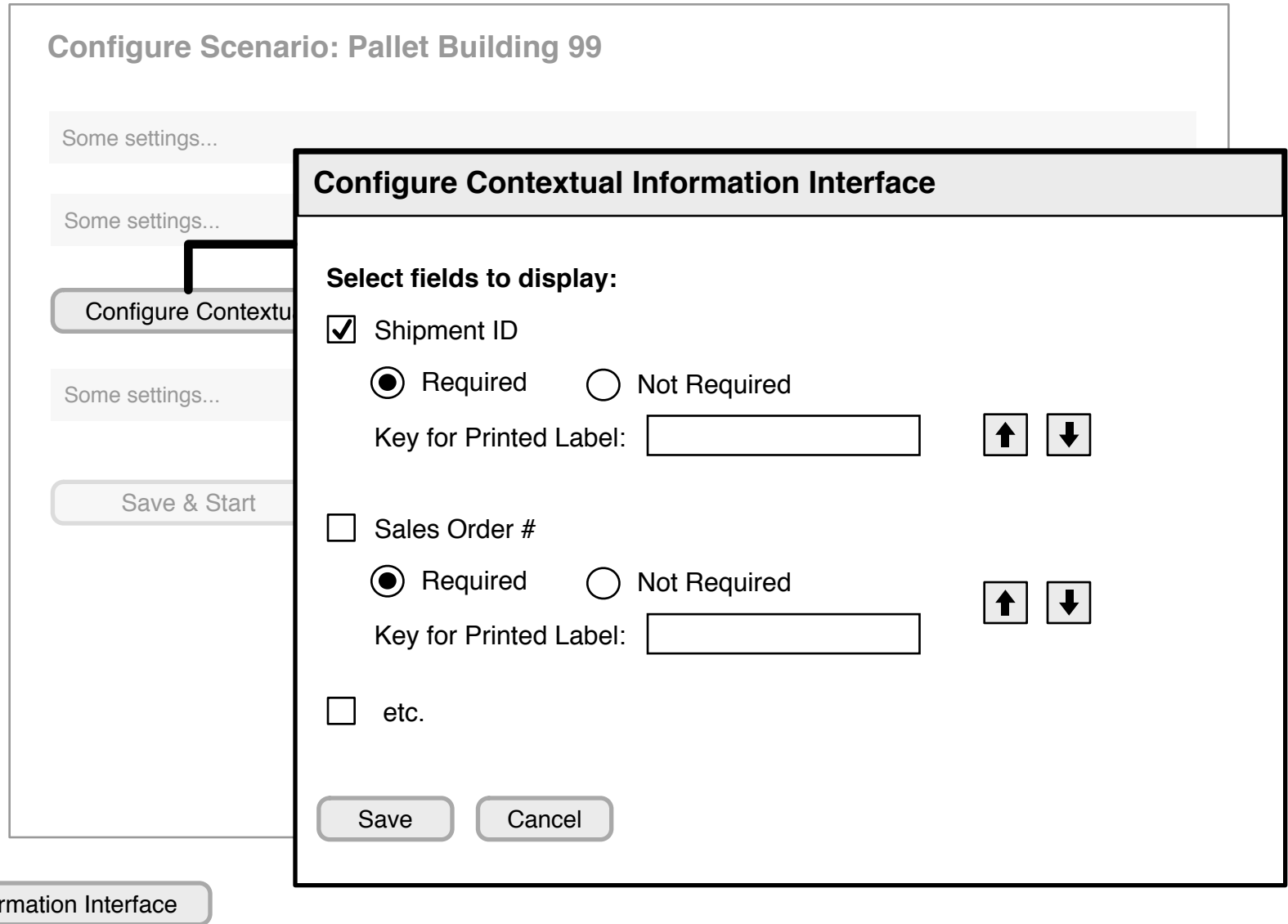
3.3 Portal/Turntable Pallet Build



3.4 Conveyor Pallet Build With Integrated Batch Label Print



3.5 Contextual Info: Configuration Popup Window



3.6 Pallet Build Wireframes: Tiles for Start Pallet

The display frame is empty during the Set Container EPC stage of Pallet Building.

The correct sequence of tiles comprising the Start phase of Pallet Building is shown on the "Pallet Building Flow:Start" page.

Shown here are the different states of the Event frame (Pure/Mixed is actually two tiles)

**Get Customer**

Select Customer:

-----  
GTIN:

**Mixed Container**

**Pure Container & GTIN**

**Get EPC**

Enter EPC:

**Get Pallet ID**

Enter Pallet ID:

**Get SSCC**

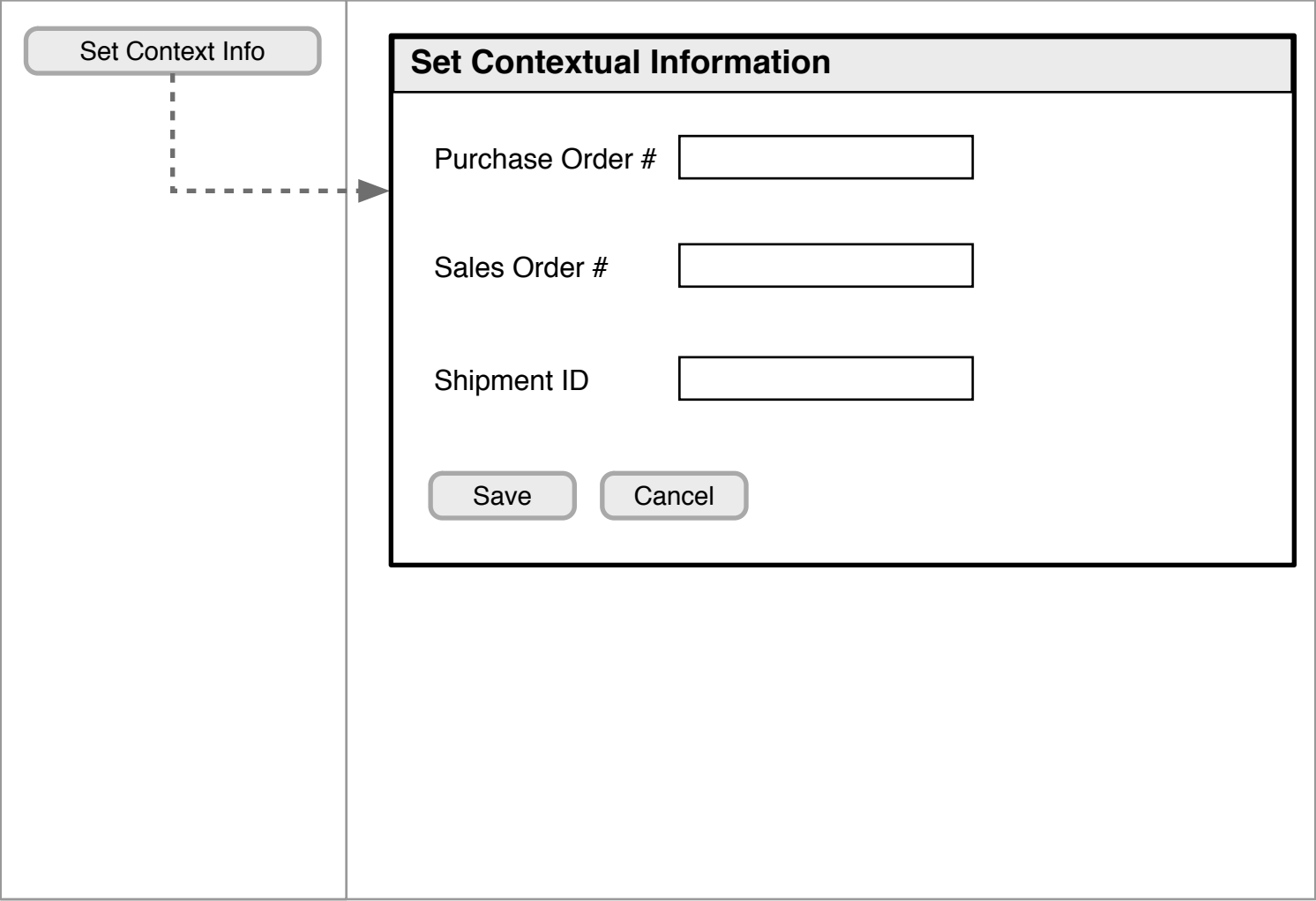
Enter SSCC:

**Get Label Qty (Popup)**

**Print Labels**  
Enter Quantity:

# OFS: Compliance for ROI

## 3.7 Contextual Info: Runtime



Tiles: **Set Contextual Info**

3.8 Pallet Build Wireframes: Pallet Build with Integrated Batch Label Print

This shows the main stage of pallet building, after the "Start" phase.

Show a checkmark next to "Print Labels" option for items that have already had all their labels printed.

This version of the Print Jobs tile only needs to cover one printer (the once specified in the scenario configuration).

Tiles: **Cancel Container, Close Container, Container EPC, Pallet Contents B, Error Log?, Attributes?, Print All Labels, Confirm Print All, Get Label Quantity**

Close Container

Cancel Container

Print All Labels

Container: ssc:7630043.238521

**▼ Contents**

SKU	UOM	Style	Description	Expect	Qty	Options
8754595	Case	—	Yummi Bears	48	13	<a href="#">Print Labels</a> ✓
8754400	Case	—	Cap'n Hunch	24	22	<a href="#">Print Labels</a>

---

**▶ Container Attributes**

**▶ Error Log**

**Print Jobs**

**▼ Oak** 172 labels **Printing**

SKU	UOM	Style	User	Sent	Status	# Labels	Options
8754595	Case	—	Joe	03-11-2005 03:21 PM	Printing	23/27	—
8754400	Case	—	Joe	03-11-2005 03:25 PM	Queued	0/104	<a href="#">Cancel</a>

Q: whether to include Container Attributes (Contextual info?) or Error Log tiles

Clicking "Print Labels" popups up the Get Label Quantity popup event tile. The value defaults to the Expected quantity for that row if there is a Target config, or just the Quantity if there is no Target config.