

# PORTFOLIO – PAACK WMS WORKFLOW

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## Crossdock inbound

### Overview

Incoming event `cms1.v1.package.created` occurs with an order containing a number of parcels for next day.

In WMS, Package appears with **Orders Status** as *Draft* and with no history visible, meaning that that it hasn't gone through any processing.

### Outcome

Upon successful completion, process should be able to continue to Last Mile inbound.

### Actors

- WMS App (mobile) – Scanner

### Checklist

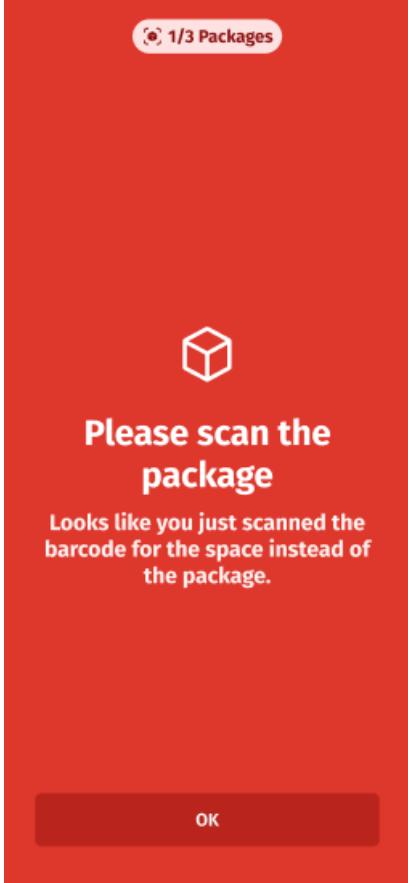
- Connectivity checks
- Readable barcode

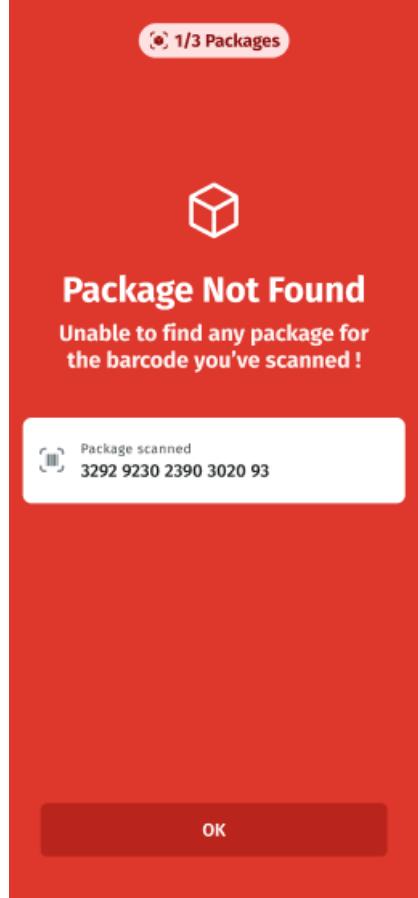
### Steps

#### 1. Check Destination

When tapping this option, user performs the initial scan to the package's barcode.

## Validations

Conditions	Exception
Scan the package's barcode correctly.	<p>If not, the initial scan results in <b>Please scan the package</b> error.</p>  <p>The image shows a red error screen with a white border. At the top, there is a small circular icon with a camera and the text "1/3 Packages". In the center, there is a white 3D cube icon. Below the icon, the text "Please scan the package" is displayed in bold black font. Underneath that, a smaller text message reads "Looks like you just scanned the barcode for the space instead of the package." At the bottom of the screen, there is a large red button with the word "OK" in white.</p>

Conditions	Exception
Package must exist.	<p>If not, the initial scan results in <b>Package not found</b> error</p> 

Event	Triggers	Consumed by	Performed by
<code>wms.v1.package.not_found</code>	Scan and <b>Check destination</b>	CMS	WMS

- Package must have a valid status. If not, any of following invalid statuses: **Picked up** **Cancelled** **Undelivered** **Return In progress** will result in error.

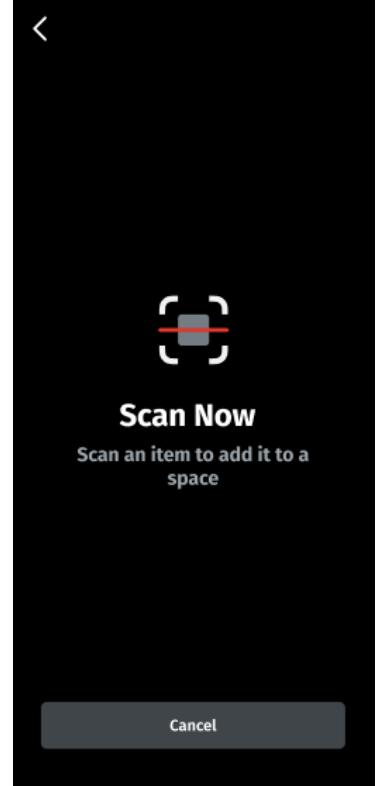
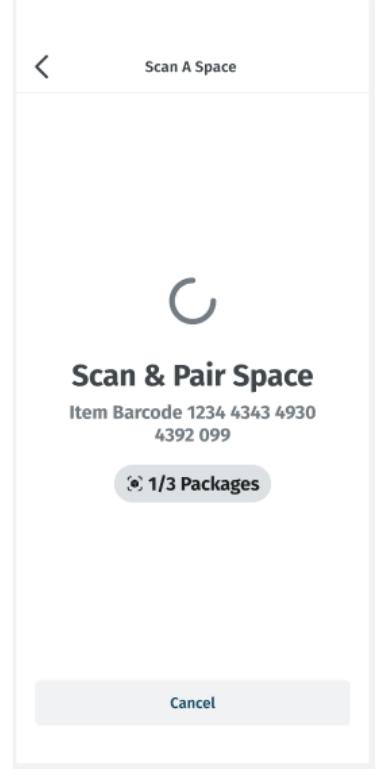
- Package must belong to a group. (Status: **Added To Group** in WMS **Event History**)
- Package must be in Paack coverage. If not, packages not covered by Paack move to national coverage i.e., Spanish Correos.

The interface suggests the space(s) where to pair the parcel.

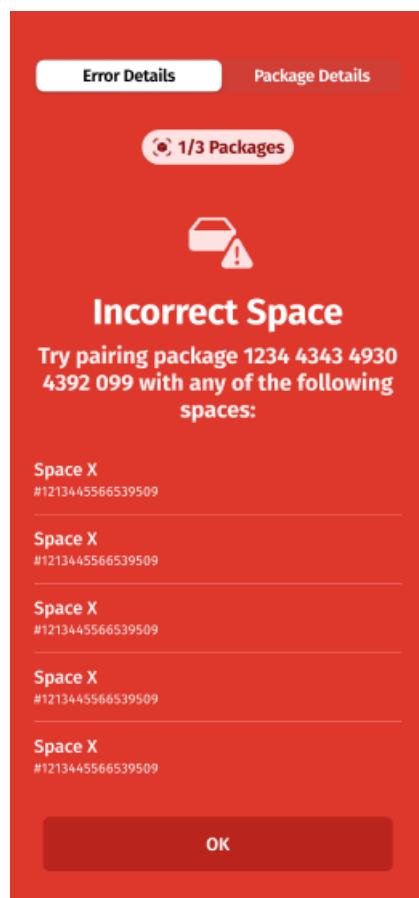
Event	Triggers	Consumed by	Performed by
wms.v1.package.scanned_at_cross_dock_warehouse	Parcel status is <b>Package scanned</b> (Package scanned at crossdock warehouse)	CMS	WMS

## 2. Move A Package

Through this function we pair parcels to their corresponding virtual spaces. The system will require first to scan the parcel's barcode, following with the barcode of the space to pair it with.

Step	Action	Screen
2.1	<p>Tap <b>Move a Package</b>. When tapping this option, proceed to scan a package.</p>	 A black mobile application screen with a central camera viewfinder icon. Below it is the text "Scan Now" in bold, followed by "Scan an item to add it to a space" in a smaller font. At the bottom is a grey "Cancel" button.
2.2	<p>The expected action is to <i>Scan A Space</i>. (One of the suggested physical spaces by the app).</p>	 A white mobile application screen with a circular loading icon at the top. Below it is the text "Scan & Pair Space" in bold. Underneath is the text "Item Barcode 1234 4343 4930 4392 099". A grey button below this says "1/3 Packages". At the bottom is a grey "Cancel" button.

## Validations

Conditions	Exception
Label to be scanned must belong to a space.	<p>If not, WMS App returns <b>Invalid Space Barcode</b> error screen.</p> 
Scanned space must correspond to the package's group.	<p>If not, WMS App returns <b>Incorrect space</b> error screen.</p> 

Once the user completes these two scans (parcel and space) it generates an API call that compares that the scanned space matches one of the suggested spaces.

Event	Triggers	Consumed by	Performed by
wms.v2.command_handler.pair.failed	Scan and <b>Check destination</b>	CMS	WMS
wms.v2.package.paired	Space Paired status in WMS <b>Event History</b>	CMS	WMS

When paired successfully:

- Assign pre-fleet and generate route in Route Management System.

## Resources

See workflow in [Figma](#)