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# 

RPK2

Last Reviewed by Sharad Singhal 5 Aug 2011

## Target audience

This document is meant for warehouse managers; repack module users and development team concerned with this module.

## Business Need

The purpose of the RPK2 program is to make cartons from loose SKU inventory. The need for repacking will arise in the following scenarios.

1. The boxes in the Inventory Reserve (BIR) have one type of SKU per carton philosophy. If the box contains multiple SKUs then contents of such boxes need to be repacked.
2. If the box does not fit in the Inventory Reserve due to size then contents of such boxes needs to be repacked.
3. If the box quantity is less than' minimum carton quantity' in the BIR then the contents need to be repacked.
4. If an unexpected SKU is found in any shelf location and pitching supervisor cannot resolve it to its correct location, then this SKU is transferred to repacking Area.
5. Over pitched SKUs, which are detected at validation scan or while checking box contents, can be added to the Repacking area.
6. If you did not receive ASN for the cartons arriving in the warehouse then you can receive cartons using repack module.

All such SKUs have to be relocated in the Inventory Reserve (BIR) so that inventory can be added back to the BIR and can be used for future processing.

## Functional Specifications

### Create Carton and Repacking

In order to create a carton the needs to supply the following information. Multiple UIs are available for Repack to minimize the need to supply all of this information.

1. *Carton ID* (optional) – Scan or key in carton ID displayed in the carton label which is being received. If not specified or scanned then carton id will be system generated.
2. Select *Source Area* from where SKUs are to be picked. Source area to be defined as any area where SKUs are stored as stated in the column dcms4.tab\_inventory\_area.stores\_what = ‘SKU’. Bundles areas will be excluded by filtering out areas whose track\_bundle\_flag = ‘M’.
3. Select *Destination Area* where this carton will be placed. Destination area to be defined as any area where cartons are stored as stated in the column dcms4.tab\_inventory\_area.stores\_what = ‘CTN’ but it should not be a numbered area, i.e. there can be at most one location for this area in dcms4.master\_storage\_location.
4. Select *Printer* where carton tickets will be printed once repacking is complete. Printers of type ZEBRA are fetched from table tab\_printer.
5. Enter *Virtual Warehouse* of the carton to be created.
6. Enter Q*uality* of the SKU. By default, the lowest tab\_quality\_code. default\_receiving\_quality will be proposed. Changing the quality will require DCMSWEB\_SUPERUSER privilege.
7. Enter *price\_season\_code* which is optional.
8. Enter *Pallet* only if dcms4.tab\_inventory\_area.is\_pallet\_required = ‘Y’ for the selected destination area.
9. Shipment ID (optional) - Enter the shipment ID against which this consignment is received.
10. Scanned UPC code – The SKU of needs to be put in carton.
11. Pieces to be packed in carton - On each scan of UPC code we increment the number of pieces by 1 which is to be contained in the carton. However, the privileged user can specify number of pieces to be contained in the carton at one go. The privilege needed for this operation is – “ALLOW\_QUICK\_PITCH”.

### Repack for Conversion

1. In addition to the data elements for repacking data, we can specify following data -
   1. Target SKU
   2. Target Virtual warehouse.

## Graphical user interface

To simplify day to day task of repacking, several UI modes are available. Each UI mode is designed for a specialized task.

1. Repack from Shelf Stock. This is optimized for repacking shelf stock inventory. For source area, only SKU area’s those are Usable, Unnumbered ,Repack Area and do not have Consolidated UPC are displayed (tab\_inventory\_area.is\_repack\_area = ‘Y’, tab\_inventory\_area.stores\_what = 'SKU', tab\_inventory\_area.unusable\_inventory Is NULL, tab\_inventory\_area.location\_numbering\_flag IS NULL', tab\_inventory\_area.consolidated\_upc\_code IS NULL). Any Numbered carton area can be the destination(tab\_inventory\_area.stores\_what = 'CTN', tab\_inventory\_area.location\_numbering\_flag IS NULL). Virtual warehouse and sewing plant must be selected. Each SKU to be packed must be individually scanned.
2. Repack for Conversion. In this UI for source area, only SKU area’s those are Usable and Repack areas are displayed (tab\_inventory\_area.is\_repack\_area = ‘Y’, tab\_inventory\_area.stores\_what = 'SKU', tab\_inventory\_area.unusable\_inventory IS NULL). The destination area must a Carton Area(tab\_inventory\_area.stores\_what = 'CTN'). Printing carton tickets is required. Virtual warehouse must be selected. Conversion information must be supplied. Each SKU to be converted must be individually scanned.
3. Receive Cartons. This UI allows user to receive cartons. Source area is any Unusable area(tab\_inventory\_area.unusable\_inventory = ‘Y’) while destination is Usable carton area(tab\_inventory\_area.stores\_what = 'CTN',tab\_inventory\_area.unusable\_inventory IS NULL). Sewing plant and Virtual warehouse are must .Shipment ID and Carton ID is optional.
4. Bulk Repack for Conversion. This UI allows user to convert multiple similar type of cartons.In this UI for source area, only SKU area’s those are Usable and Repack areas are displayed (tab\_inventory\_area.is\_repack\_area = ‘Y’, tab\_inventory\_area.stores\_what = 'SKU', tab\_inventory\_area.unusable\_inventory IS NULL). The destination area must a Unnumbered Carton Area(tab\_inventory\_area.stores\_what = 'CTN', tab\_inventory\_area.location\_numbering\_flag IS NULL'). Printing carton tickets is optional. Virtual warehouse must be selected. User can scan UPC to convert and provide number of pieces and cartons. Conversion information must be supplied which includes target sku and target virtual warehouse.
5. Advanced UI.This UI is available to a privileged user only. Source area contains all sku that do not have Consolidated UPC (, tab\_inventory\_area.stores\_what = 'SKU' ,tab\_inventory\_area.consolidated\_upc\_code IS NULL)while destination has all Unnumbered Carton areas(tab\_inventory\_area.stores\_what = 'CTN', tab\_inventory\_area.location\_numbering\_flag IS NULL'). User can receive cartons, convert cartons, and repack them using this. But it allows scanning of each individual UPC.
6. Bulk Advanced UI. Same as Advanced UI except that user does not have to scan each individual UPC.

\*Areas which have consolidated UPC flag set, or for which bundle tracking is mandatory are never displayed.

\*Only active and makeable SKUs are allowed.

### Proposed Choices for Data Elements

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Data Elements** | **Screens** | | | | | |
| **Advanced UI(Role DCMSWEB\_SUPERUSER)** | **Bulk Advanced UI**  **(Role DCMSWEB\_SUPERUSER)** | **Repack from Shelf Stock**  **(Role SRC\_RPK)** | **Receive Cartons**  **(Role SRC\_RPK)** | **Repack for Conversion**  **(Role SRC\_RPK** | **Bulk Repack for Conversion**  **(Role DCMSWEB\_SUPERUSER)** |
| *Source Area.* Required. | All | | All SKU inventory areas which are repacking areas | Non Received ,Repack area | All SKU inventory areas which are repacking areas | |
| *Destination Area.* Required | All carton areas, whose bundle flag is not set to ‘M’ (meant for bundle areas, and is de-supported) | | All unnumbered carton areas, whose bundle flag is not set to ‘M’ (meant for bundle areas, and is de-supported) | Receiving area | All unnumbered carton areas designated for conversion and whose bundle flag is not set to ‘M’ (meant for bundle areas, and is de-supported) | |
| *Pallet* | Required depending on destination area selected | | Required depending on destination area selected | Not Visible | Required depending on destination area selected | |
| *Virtual Warehouse* | All | | All | All | All | |
| *Price Season Code* | All | | None | None | None | |
| *Quality Code.* Required. | All | | Not visible. Ordered quality is assumed. | Not visible. Receiving quality is assumed. | Not visible. Ordered quality is assumed. | |
| *Sewing Plant.* Required. | All | | All | All | Not visible. Null is assumed. | |
| *Shipment Id* | Optional | | Not visible | Optional | Not visible | |
| *Carton Id* | optional | | None | Key in / Scanned | None | |
| *UPC Code* | All | | All | All | All | |
| *Pieces* | Auto increment | Key in | None | Key in | Auto increment | Key In |
| *Number of cartons* | Optional. Defaults to 1. | Key In | Not visible | Not visible | 1 by default | Required |
| *Convert to SKU* (target SKUs) | Optional | | Not visible | Not visible | Optional | |
| *Change Virtual Warehouse*  (target VWh) | Optional | | Not visible | Not visible | Optional | |

## Security Configurations

* Quick Create Mode
  + ALLOW\_QUICK\_PITCH - Read value for quantity mode from upriv. Users without this privilege, scans each piece to be put in the carton.

## Technical Specifications (subject to change)

## Questions

## Change History:

|  |  |  |  |
| --- | --- | --- | --- |
| **S. No.** | **Date** | **Modified By** | **Description** |
|  | September 27, 2010 | Deepak Bhatt | Original Document |
|  | October 9, 2010 | Gitesh Paul | Added few point and raised his concerns in “Repack Carton”. |
|  | October 12th , 2010 | Gyaneshwar Lal | Addressed to raised concerns from Gitesh and added few points in the functional specs of “Repack Carton” . |
|  | October 16th, 2010 | Gyaneshwar Lal | Finalized functional specifications. |
|  | November 25th, 2010 | Gyaneshwar Lal | Introduced proposed choices and values for the data elements. |