Quality Check Re-Sampling

Epsilon Carbon Ltd.

Scope Change Document

The document will detail the requirements that are driving the change on the software change request form, this will help in the understanding of Software Change requests.

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Version: 1.0

Revision History

Version	Date	Prepared By	Reviewed By	Comments
1.0	04-07-2022	Omkar Gaonkar	Nandhini	Quality check Re-sampling procedure process added

Abbreviations:

Client: ECL - Epsilon Carbon Ltd.

Vendor: BCI - Bar Code India

Application: QCR – Quality Check Re-Sampling

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1   Document Scope

CB Material Quality check is a desktop and device based application developed for Epsilon Carbon using RFID & AIDC technology which will help in effectively automate and track all the Quality check operations of CB material bags i.e. from Quality of samples per batches using RFID tags.

The desktop application allows user to Add Sample label print button in Packing Screen and to be enabled after RFID tags are generated. Also receive the samples in QC labs through desktop application. Quality Check RFID labels on Carbon bags are required for each batches per shift wise.

The android and desktop allocation allows user to get the QC parameters in Android with Shift selection and copy control of results from the shift -wise other received batches. Upload the shift–wise SAP. Re-sampling to be provided to search the result batch wise and provide options to re-enter new parameters.

Data of QC results after getting saved can be updated as well an update option is available before uploading it to SAP.

Resampling can happen after months, years or days if the material is still in the inventory, the resampling results would be collected and cannot be uploaded on SAP.

Epsilon need to implement some requirements as details are mentioned in new requirement section under 3.2.1

2   Document Reference

S.R. NO.	Document Type/ Email	Date	Version
1.	Epsilon Scope Change Document	30-06-2022	V1.0

3   Change Request- Modules

3.1   Existing Scenario (Module Wise)

1) **In Putaway process**:

    i.   Old Version: - Selection of location and Plant details was given by the user.

        New Version: - SAP given location and plant details would be used.

    ii.   Old Version: - After putaway process all data used to get uploaded to SAP.

        New Version: - After putaway need to upload the batch number along with the floor location to SAP

2) **In Packing Screen**:

    i.   Old Version: - The dropdown menu was provided for the Order number.

    ii.   New Version: - Autocomplete numbering to be provided for Order Number.

3) **Report Screen**:

    i.   Old Version: - Only the Export button was provided on the Screen.

    ii.   New Version: - The print button will be given, along with the Export button.

4) **For Sorting data**:

    i.   Old Version: - Sorting as per user data input.

    ii.   New Version: - Sorting as per descending order.

5) **Date details**:

    i.   Old Version: - Date would be YY-DD-MM format.

    ii.   New Version: - Date as per DD-MM-YY format.

6) **Status indication flags**:

    i.   Old Version: - Only available status was given.

    ii.   New Version: - Nomenclature along with available status the flag indication details will be shown:

        a.   For Available status "1" it will indicate In-stock status.

        b.   For Available status "0" it will indicate Out of Stock status.

7) **Loading Screen (Android)**:

    i.   Old Version: - After picking up all bags as per order number, the number of scan bags would be visible. After scanning all the bags then the user can put it for loading and the loading process will be completed.

    ii.   New Version: - After picking up all bags as per order number. Each scan bag would be sent for loading and the loading process can be shown completed.

8) **Sticker Tags**:

    i.   Old Version: - The grade was printed on the sticker.

    ii.   New Version: - The material code is to be printed on the sticker.

9) **Reports**:

    i.   Old Version: - For a copy, the whole cell is used to get selected for copying data.

        New Version: - For a copy, particular cell data can be copied as per user.

ii. Old Version: - PDF button was not given.

New Version: - PDF button will be given along with the export button.

10) **Report for SAP and RFID**:

i. Old Version: - The location, plant, and delivery details was stored in SAP by the user.

ii. New Version: - The SAP would give the location, Plant, and delivery details, and the RFID scan bags are done as per it report to be provided.

11) **Loading Slip Report**:

i. Old Version: - The Material code column was missing.

New Version: - The Material code and the status of every batch will be given.

ii. Old Version: - Single Order number search option was available

New Version: - Comma separated option required for dispatch order number filter

12) **For CB Plant Process**:

The Material Transfer process will be not given.

13) **For CT Plant Process**:

The Putaway and Picking process will be not given.

14) **Material Inventory Report**:

i. Old Version: - Single Order number search option was available.

New Version: - Will give Comma separated option for Material code filter (e.g.: 000001234, 4567).

ii. Old Version: - Data sorting as per user details.

New Version: - The data sorting in ascending order (as per date wise).

iii. Old Version: - Floor location selection was not given.

New Version: - Floor location filter will be provided.

15) **For Offline and Online Process**:

i. Old Version: - Select a particular screen e.g Putaway screen, first load the data and then go offline and start the scanning. After the required data is scanned properly can go online and click on the Sync button to upload the data to the server module.

ii. New Version: - Auto upload data provision to Server after offline scanning of materials.

3.2 **New QC Sample Requirement:**

Please find below requirement for Quality Check Process.

1. Selection of batches per shift would be populated for saving the parameters.

2. Copy Control button, to copy the selected batch QC results to other batches.

3. Upload to SAP button, to upload data on SAP of QC results per shift wise.

4. Re-Sampling of Carbon bags for QC testing one more time to be provided.

3.2.1 Introduction

1. Order are generated in the SAP and will be reaching our BCIL server
2. Order generated in SAP will be shown to print option in label sticker.
3. Once label is printed it is pasted on carbon bag, will be given a RFID sticker.
4. As per the Epsilon, they need to make sample stickers for QC testing.
5. Paste sample on every batch, and sent for QC testing.
6. QC people will receive the batches thus after testing will give QC results.

3.2.2 Packing Screen

1) Select the Order number based on which batch number will be seen in table grid.
2) Click on Generate the label button
3) Once particular order number selected for label, it enables another button for printing sample stickers.
4) The label of new sample sticker button would be enabled
5) Generate RFID label for order number the sample sticker number button would be enabled for printing

3.2.3 Receiving

1) Fixed Mount scanner is attached to the desktop, where we need to give provision to scan the sample stickers.
2) Status would be sample received in the QC labs.

3.2.3.1 Shift Selection

1. Selection of shifts A, B, C, G, from the shifts options.
2. Select the required batch and enter the parameters.
3. Batches received for that shift would be populated for saving the parameters
4. All the batches would be populated and can multi select the batches.
5. Click on **Save** to save the parameters.

3.2.3.2 Update QC Result

1. User can update the QC results.
2. Provision for batch number searching, based on which data can be updated.
   Before uploading to SAP data can be updated.

3.2.3.3 Copy Control Process

1. All batches would be populated in drop down list based on shift.
   Maintain all the data in shift wise.
2. Click on **Search**, all the remaining batches of that shift that are yet to be saved for QC result,
   shall be shown in table grid.
3. User can select the other received batches (multi select).
4. Click on **Copy Result** button, the particular batch to the selected batch QC results will get copied.

3.2.3.4   Upload to SAP

1. Upload the QC results shiftwise on SAP that are yet to be uploaded.

2. Click on **Upload to SAP** button, the data gets saved on SAP.

3.2.3.5   Resampling

1. Given an option to search, once data is searched all previous value parameter will be displayed.

2. On the left side, data will be visible.

3. On the Right side, edit icon would be visible.

4. After selecting the edit option and adding new value.

5. New value gets saved under the previous value.

6. Resampling is possible after the data is uploaded to SAP.

    *Only specified user will be given permission to do resampling process.

7. Resampling QC results saved as a different record cannot be overwritten on existing QC results.

3.3   Impact on other Modules:

Yes- This change request actually impacts all the modules.

3.4   Database Impact

Yes

3.5   Report Generated (If any)

N/A

4   Document Change

S.No.	Document Name	Version
1.	Quality Check Resampling	1.0

5   Testing

BCI will test the application internally in different scenarios.

6   Deployment

BCI will deploy the application after testing and observe the data.

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