

- 1) Login page
- 2) Bulk Details
- 3) Repacking Bulk Details
- 4) Scanning Page
- 5) Display screen
- 6) Check string
- 7) Create XML files (example is bellow)

1) Login Page

- a. must have a admin user which have rights to create different user and it's rights
- b. cannot skip ... this page
- c. must check the port here ... which port you want to use (hand held scanner or optical barcode scanner)
- d. type of scanning we want to continue

2) Bulk Details

- a. Enter bulk details by scanning or manually
- b. Bulk details such as GTIN < LOT < EXP
- c. Formats are pre-fixed (YYYY-MM-DD)
- d. Total no of bottles (total bottles that comes in bulk)
- e. Total no of cases (total no of cases that comes on pallet)

For an example

1 pallet

13 full cases and 1 Partial case

12 bottles per case

6 bottles in partial case

So, our calculation will be $162 [(1 \times 13 \times 12) + (1 \times 6)] = 162$

3) Repacking Bulk Details

- a. New bulk details such as GTIN, EXP, LOT

4) Scanning page

- a. Will show GTIN, EXP, LOT, SN
- b. This page will check the no of bottles are scan and display count. And keep the trace of no of cases were scanned ...
- c. And shows the serial no of that scanned bottle
- d. This page will make sure that no duplication is done
- e. This page will also make sure that only current lot and exp, GTIN is use for scanning
- f. If any duplication or wrong LOT, EXP, GTIN, is entered to scan must show error.

5) Display Screen

- a. This will show the items scanned in tree format.
- b. With use of credential, you can delete the string or change
- c. With the use of credential, you can enter a string.

6) Check string.

This is a new page which will choose after the login credential page,

- 1) Enter or scan string, and find the length
- 2) Match the first 3 character of string & it's length

7) XML files

This file should be oldbulkname-newbulkname.xml

Abc123-ABC1234.xml--- must be like this No exception

Details Need to know

String you get from scanner or optical reader

01003605052671872121279651725053110TL7584

01003605052671872121279661725053110TL7584

01003605052671872121279671725053110TL7584

This string contains

Identifiers

(01) 0036050526718721(21) 2127965(17)250531(10) TL7584

(01) Is AI for GTIN which always Contain always 14 digit

(21) is AI for Serial Number

(17) is AI for Expiration date which always comes in YYMMDD

(10) is for the Lot number

This GS1 string can be varies by customer to customer ..

01XXXXXXXXXXXXX21~17YYMMDD10XXXX

01XXXXXXXXXXXXX17YYMMDD10XXXX21~~

01XXXXXXXXXXXXX10XXXX17YYMMDD21~

01XXXXXXXXXXXXX21~10XXXX17YYMMDD

Reference link

[https://www.gs1.org/standards/gs1-datamatrix-guideline/25#2-Encoding-data+2-3-Human-readable-interpretation-\(HRI\)](https://www.gs1.org/standards/gs1-datamatrix-guideline/25#2-Encoding-data+2-3-Human-readable-interpretation-(HRI))

Bellow both XML are required. Simple format as well as specific required one

Example of current XML file

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?><epcis:EPCISDocument
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" creationDate="2023-04-01T09:48:59.334-04:00"
schemaVersion="1"><epcis:EPCISBody><epcis:EventList><epcis:ObjectEvent><epcis:eventTime>202
3-04-01T09:48:59.350-04:00</epcis:eventTime><epcis:eventTimeZoneOffset>-
04:00</epcis:eventTimeZoneOffset><epcis:epcList><epcis:epc>01003605052671872121279671725
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053110TL7584</epcis:epc><epcis:epc>01003605052671872121288531725053110TL7584</epcis:epc
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ssioning</epcis:bizStep><epcis:disposition>urn:epcglobal:cbv:disp:active</epcis:disposition><epcis:
readPoint><epcis:id>urn:systechcitadel.com:device:sgln:101</epcis:id></epcis:readPoint><epcis:biz
Location><epcis:id>urn:epc:id:sgln:08662190003.0.0</epcis:id></epcis:bizLocation><epcis:extensio
n><!--@Verify By Tushar--><epcis:field name="Lot Number (Bulk)" value="TL7584"/><epcis:field
name="Expiration Date" value="2025-05-31"/><epcis:field name="Lot Number (Repackaged)"
value="1011342"/></epcis:extension></epcis:ObjectEvent></epcis:EventList></epcis:EPCISBody></
epcis:EPCISDocument>
```

Requirement for one customer

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?><epcis:EPCISDocument
xmlns:epcis="urn:epcglobal:epcis:xsd:1" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" creationDate="2023-04-01T09:48:59.334-04:00"
schemaVersion="1"><epcis:EPCISBody><epcis:EventList><epcis:ObjectEvent><epcis:eventTime>202
3-04-01T09:48:59.350-04:00</epcis:eventTime><epcis:eventTimeZoneOffset>-
04:00</epcis:eventTimeZoneOffset><epcis:epcList><epcis:epc>(01)00360505267187(21)2127967(1
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84</epcis:epc><epcis:epc>(01)00360505267187(21)2127966(17)250531(10)TL7584</epcis:epc><ep
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505267187(21)2127973(17)250531(10)TL7584</epcis:epc></epcis:epcList><epcis:action>ADD</epci
s:action><epcis:bizStep>urn:epcglobal:cbv:bizstep:commissioning</epcis:bizStep><epcis:disposition
>urn:epcglobal:cbv:disp:active</epcis:disposition><epcis:readPoint><epcis:id>urn:systechcitadel.co
m:device:sgln:101</epcis:id></epcis:readPoint><epcis:bizLocation><epcis:id>urn:epc:id:sgln:086621
90003.0.0</epcis:id></epcis:bizLocation><epcis:extension><!--@Verify By Tushar--><epcis:field
name="Lot Number (Bulk)" value="TL7584"/><epcis:field name="Expiration Date" value="2025-05-
31"/><epcis:field name="Lot Number (Repackaged)"
value="1011342"/></epcis:extension></epcis:ObjectEvent></epcis:EventList></epcis:EPCISBody></
epcis:EPCISDocument>
```

Flow Chart for the app

