

# **Generate Labels using QR code Encoder/Decoder**

Version 1.0

**GS1 INDIA**

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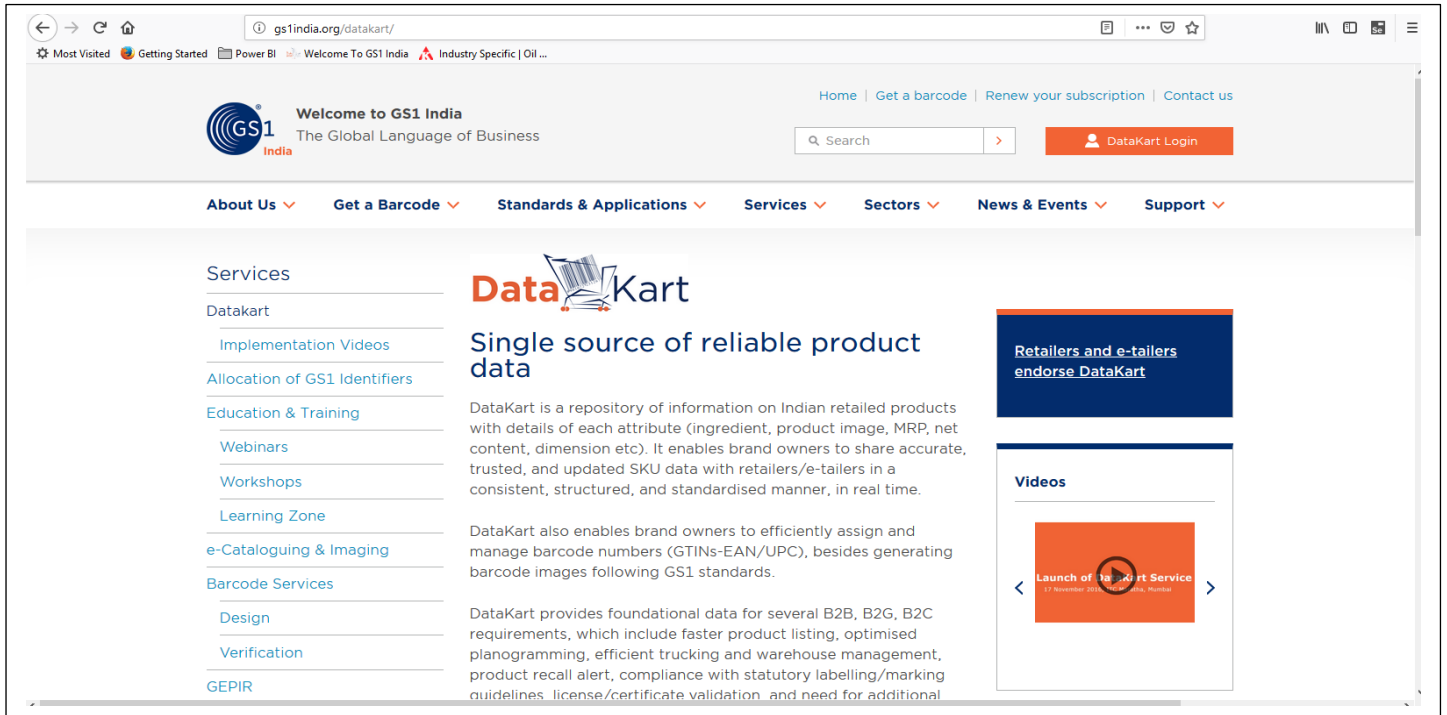
## 1. Audience for this document

Manufacturing companies publishing product data to Retailers / Ecommerce companies/ Solution Providers

## 2. How to generate logistic labels using QR code encoder/decoder?

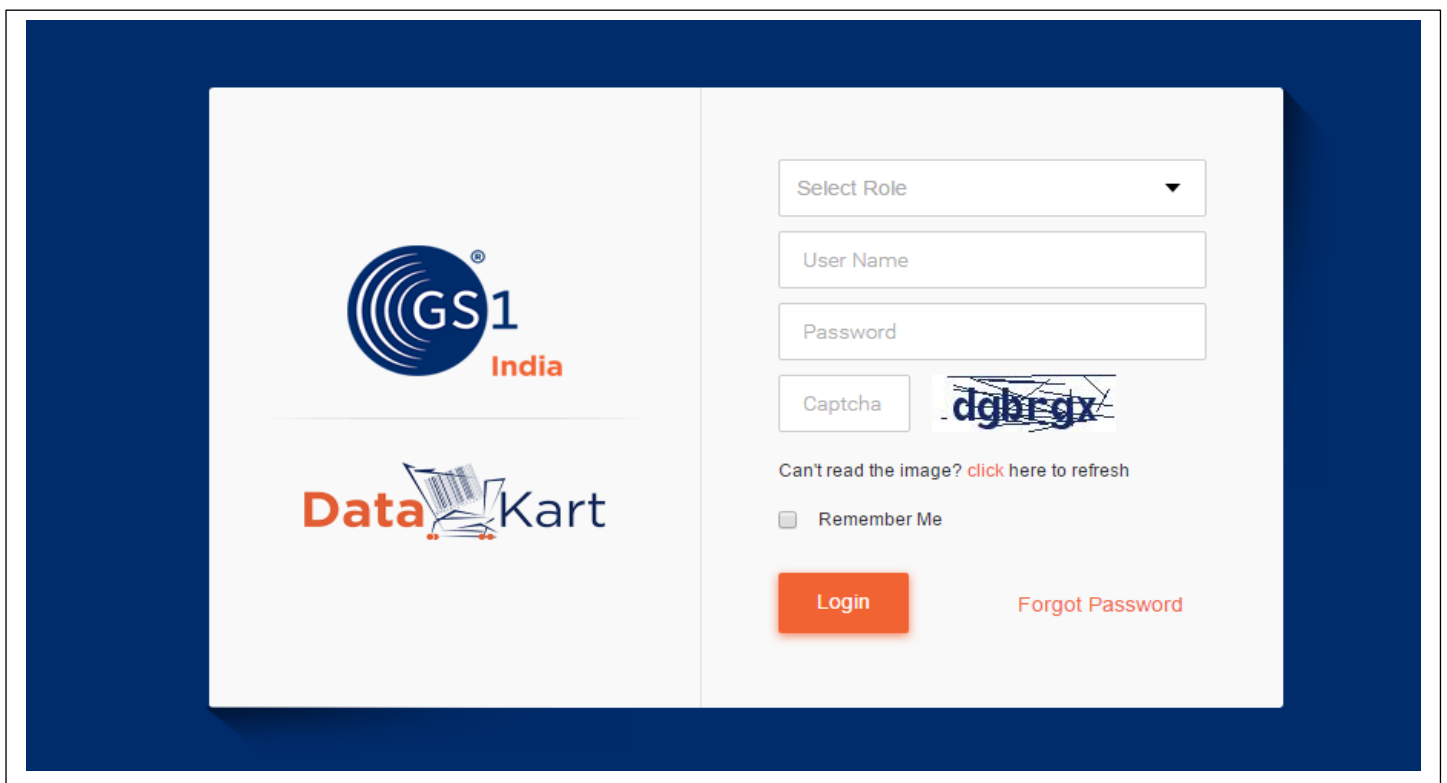
### Step 1) Visit Web-application

- Go to website [www.gs1datakart.org](http://www.gs1datakart.org)
- Click on 'Login' from the home page.





### Step 2) Login

- Select role as 'Manufacture'
- Enter 'User Name' and 'Password'
- Enter Captcha




### Step 3) Go to Generate and Print Barcodes.




NESTLE INDIA LTD. (Amardeep.Thapar@in.nestle.com)

[Product Data](#)
[My Account](#)
[Resources](#)
[Back](#)
[Logout](#)
[Search](#)


GTIN Allocated: 100000    GTIN Utilized: 148    GTIN Remaining: 99852




Create Product Data




View Product Data




Manage Brand Status




Account Settings




Upload Product Data




Generate & Print Barcodes




Apply Data Access Permissions




Map SKU Number




Tax Schedule



Notification Acknowledgement



MDM Updates



Cost Margin

### Step 4) Go to the tab QR Code Encoder/Decoder

[Dashboard](#)
[Manage Product](#)
[My Account](#)
[Resources](#)
[Back](#)
[Logout](#)

GTIN Allocated: 1000    GTIN Utilized: 69    GTIN Remaining: 931

[SKU \(Stock Keeping Unit\)](#)
[Cartons / Cases](#)
[Logistic Labels / Pallet Labels](#)

QR Code Encoder / Decoder

Product Name / GTIN \*

Manufacturing Date \*

Expiry Date \*

Case Config \*

PO Number \*

Master Carton Gross Weight in KG's \*

Carton 'Width' in Metres \*

SAP Batch Code \*

Packaging Date \*

CBU Code \*

MRP \*

Customer Article Code \*

Carton 'Length' in Metres \*

Carton 'Height' in Metres \*

OUTPUT :

[Encode & Download](#)
[Decode](#)
[Clear](#)
[Encode/Batch](#)
[Encoder/Decoder API](#)

Logistic Label Allocated: 10000000    Remaining: 9999929

Step 5) Fill in all the mandatory fields and click on the button 'Encode and Download'

Dashboard
Manage Product
My Account
Resources

Back
Logout

GTIN Allocated: 1000
GTIN Utilized: 69
GTIN Remaining: 931

SKU (Stock Keeping Unit)
Cartons / Cases
Logistic Labels / Pallet Labels
QR Code Encoder / Decoder

Product Name / GTIN \*
Lichi Juice 250 ml (89060009...

SAP Batch Code \*
DK0001

Manufacturing Date \*
2018-11-28

Packaging Date \*
2018-11-29

Expiry Date \*
2019-05-31

CBU Code \*
TEST1234

Case Config \*
12

MRP \*
20

PO Number \*
14673657

Customer Article Code \*
40014845

Master Carton Gross Weight in KG's \*
30

Carton 'Length' in Metres \*
2

Carton 'Width' in Metres \*
2

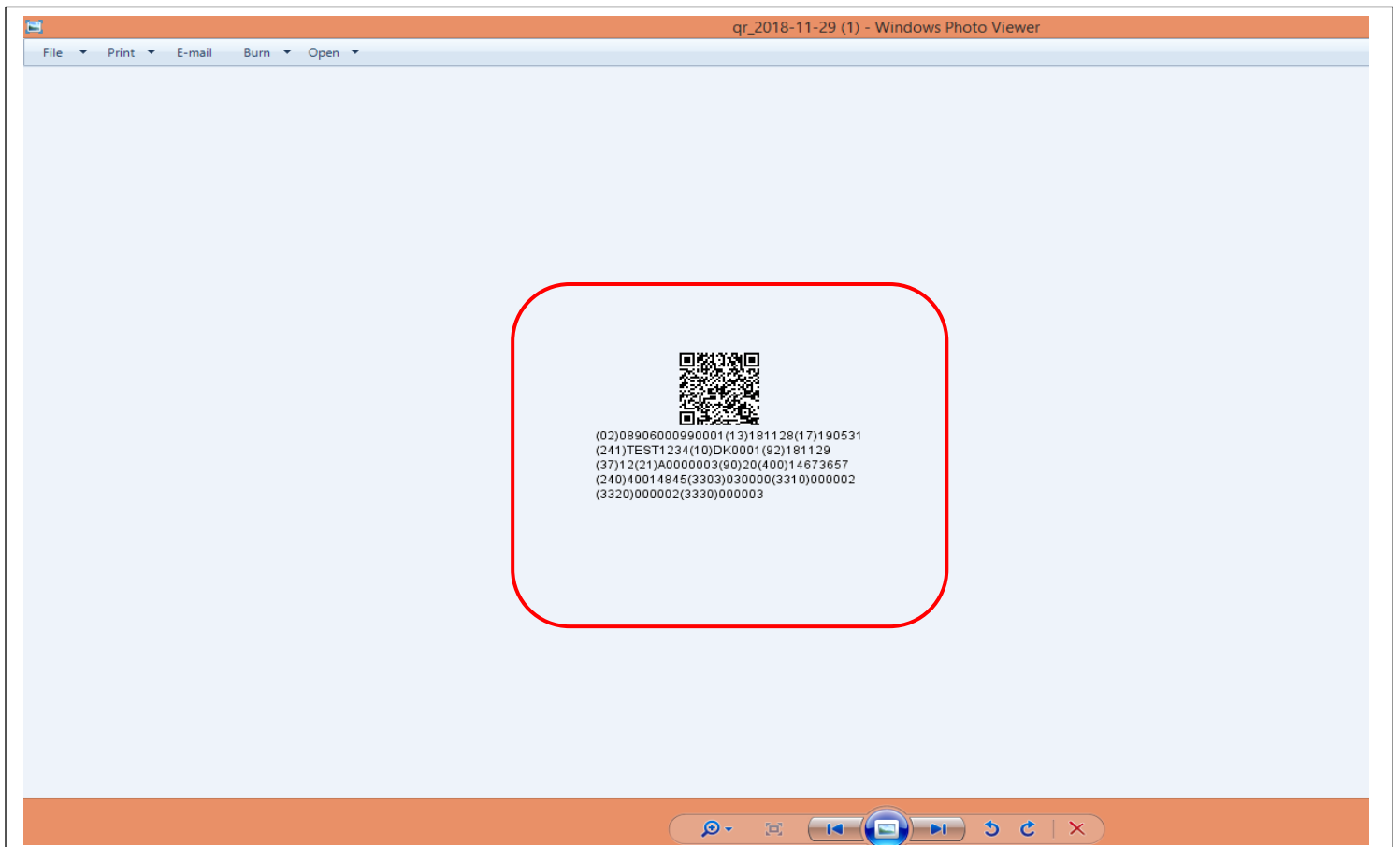
Carton 'Height' in Metres \*
3

OUTPUT :
02089060009900011318112817190531241TEST1234~100K0001-92181129-3712~21A0000003-9020-40014673657-24040014845-33030300003310000002332000000233300000

Encode & Download
Decode
Clear
Encode/Batch
Encoder/Decoder API


Logistic Label Allocated: 10000000
Remaining: 9999929

Step 6) Click on downloaded file to open the QR Code label



### 3. How to decode the string?

Step 1) Copy the barcode string in the field 'Output' and click on tab 'Decode'


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[Manage Product](#)
[My Account](#)
[Resources](#)

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[Logout](#)

GTIN Allocated: 1000    GTIN Utilized: 69    GTIN Remaining: 931

SKU (Stock Keeping Unit)
Cartons / Cases
Logistic Labels / Pallet Labels
**QR Code Encoder / Decoder**

Product Name / GTIN \*
Select GTIN

Manufacturing Date \*

Expiry Date \*

Case Config \*

PO Number \*

Master Carton Gross Weight in KG's \*

Carton 'Width' in Metres \*

SAP Batch Code \*

Packaging Date \*

CBU Code \*

MRP \*

Customer Article Code \*


Carton 'Length' in Metres \*

Carton 'Height' in Metres \*

**OUTPUT :**
(89060009900011318112817190531241TEST1234-10DK0001-92181129-3712-21A0000003-9020-40014673657-24040014845-3303030000331000000233200000023330000003)

Encode & Download
**Decode**
Clear
Encode/Batch
Encoder/Decoder API

Logistic Label Allocated: 10000000    Remaining: 9999929


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[Manage Product](#)
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GTIN Allocated: 1000    GTIN Utilized: 69    GTIN Remaining: 931

SKU (Stock Keeping Unit)
Cartons / Cases
Logistic Labels / Pallet Labels
**QR Code Encoder / Decoder**

Product Name / GTIN \*
Lichi Juice 250 ml (89060009...)

Manufacturing Date \*
2018-11-28

Expiry Date \*
2019-05-31

Case Config \*
12

PO Number \*
14673657

Master Carton Gross Weight in KG's \*
30

Carton 'Width' in Metres \*
2

Serial Number \*
A0000003

SAP Batch Code \*
DK0001

Packaging Date \*
2018-11-29

CBU Code \*
TEST1234

MRP \*
20

Customer Article Code \*
40014845

Carton 'Length' in Metres \*
2

Carton 'Height' in Metres \*
3


**OUTPUT :**
02089060009900011318112817190531241TEST1234-10DK0001-92181129-3712-21A0000003-9020-40014673657-24040014845-330303000033100000023320000002333000003


Encode & Download
**Decode**
Clear
Encode/Batch
Encoder/Decoder API


Logistic Label Allocated: 10000000    Remaining: 9999929


#### 4. How to create QR codes in a batch mode?

Step 1) Click on tab 'Encode - Batch Mode'

 Dashboard

 Manage Product ▼

 My Account ▼

 Resources ▼

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Logout

GTIN Allocated: 1000 GTIN Utilized: 69 GTIN Remaining: 931

SKU (Stock Keeping Unit)

Cartons / Cases

Logistic Labels / Pallet Labels

QR Code Encoder / Decoder

Product Name / GTIN \*

Select GTIN ▼

Manufacturing Date \*

Expiry Date \*

Case Config \*

PO Number \*

Master Carton Gross Weight in KG's \*

Carton 'Width' in Metres \*

SAP Batch Code \*

Packaging Date \*

CBU Code \*

MRP \*

Customer Article Code \*

Carton 'Length' in Metres \*

Carton 'Height' in Metres \*

OUTPUT :

Encode & Download

Decode

Clear

Encode/Batch

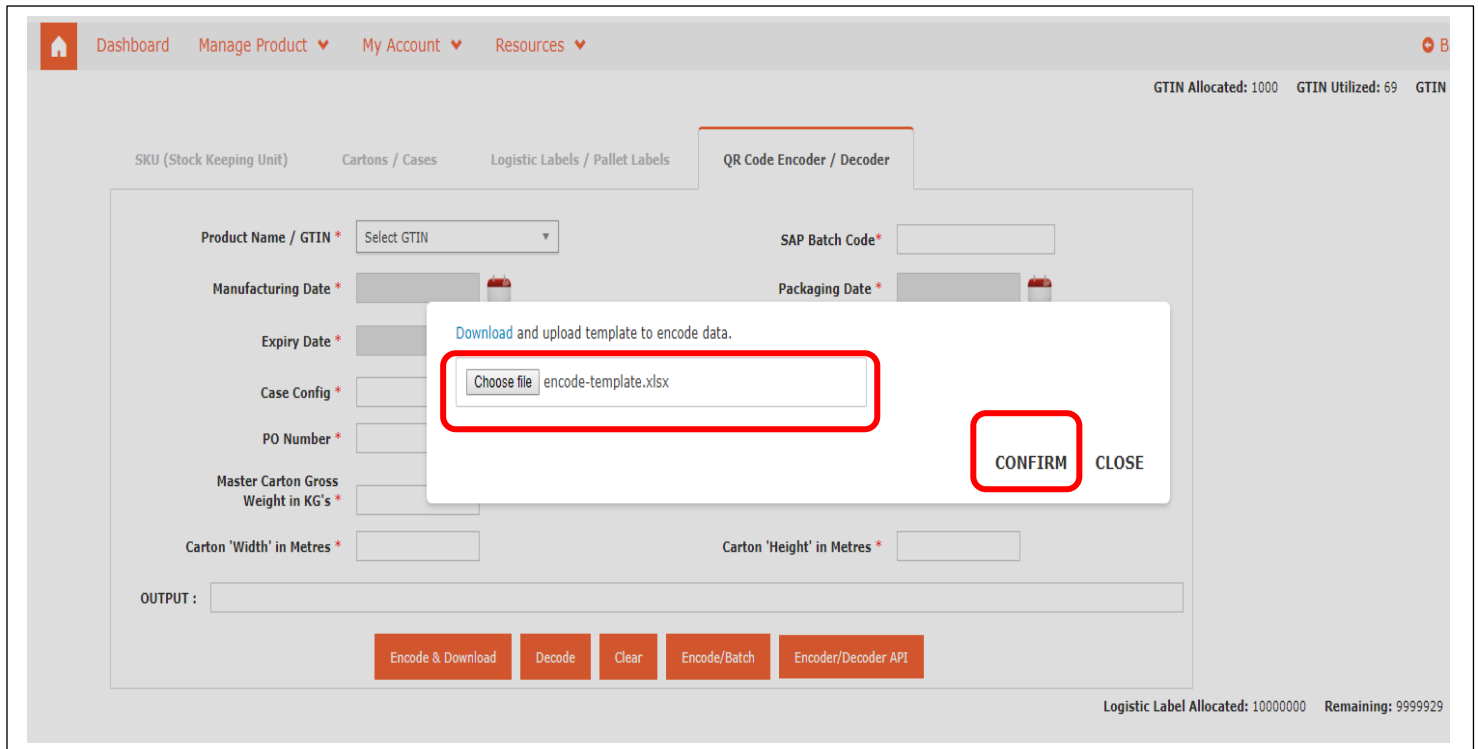
Encoder/Decoder API

Logistic Label Allocated: 10000000 Remaining: 9999929



[illegible]

Step 4) Upload the template to generate multiple QR code labels and click on confirm



Dashboard Manage Product My Account Resources

GTIN Allocated: 1000 GTIN Utilized: 69 GTIN

SKU (Stock Keeping Unit) Cartons / Cases Logistic Labels / Pallet Labels QR Code Encoder / Decoder

Product Name / GTIN \* Select GTIN SAP Batch Code \*

Manufacturing Date \* Packaging Date \*

Expiry Date \*

Case Config \*

PO Number \*

Master Carton Gross Weight in KG's \*

Carton 'Width' in Metres \* Carton 'Height' in Metres \*

OUTPUT :

Encode & Download Decode Clear Encode/Batch Encoder/Decoder API

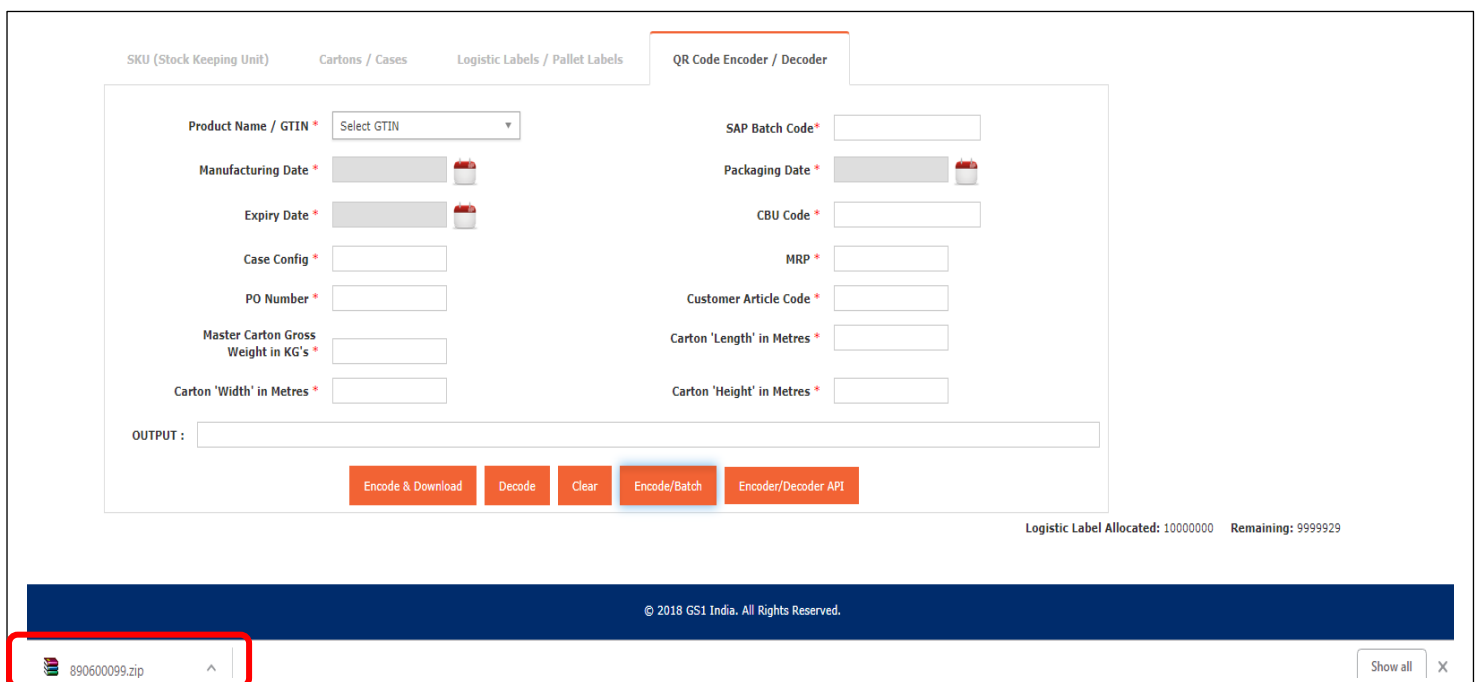
Logistic Label Allocated: 10000000 Remaining: 9999929

Download and upload template to encode data.

Choose file encode-template.xlsx

CONFIRM CLOSE

Step5) Extract the zip file to open the QR code labels



SKU (Stock Keeping Unit) Cartons / Cases Logistic Labels / Pallet Labels QR Code Encoder / Decoder

Product Name / GTIN \* Select GTIN SAP Batch Code \*

Manufacturing Date \* Packaging Date \*

Expiry Date \*

Case Config \*

PO Number \*

Master Carton Gross Weight in KG's \*

Carton 'Width' in Metres \* Carton 'Length' in Metres \*

Carton 'Height' in Metres \*

OUTPUT :

Encode & Download Decode Clear Encode/Batch Encoder/Decoder API

Logistic Label Allocated: 10000000 Remaining: 9999929

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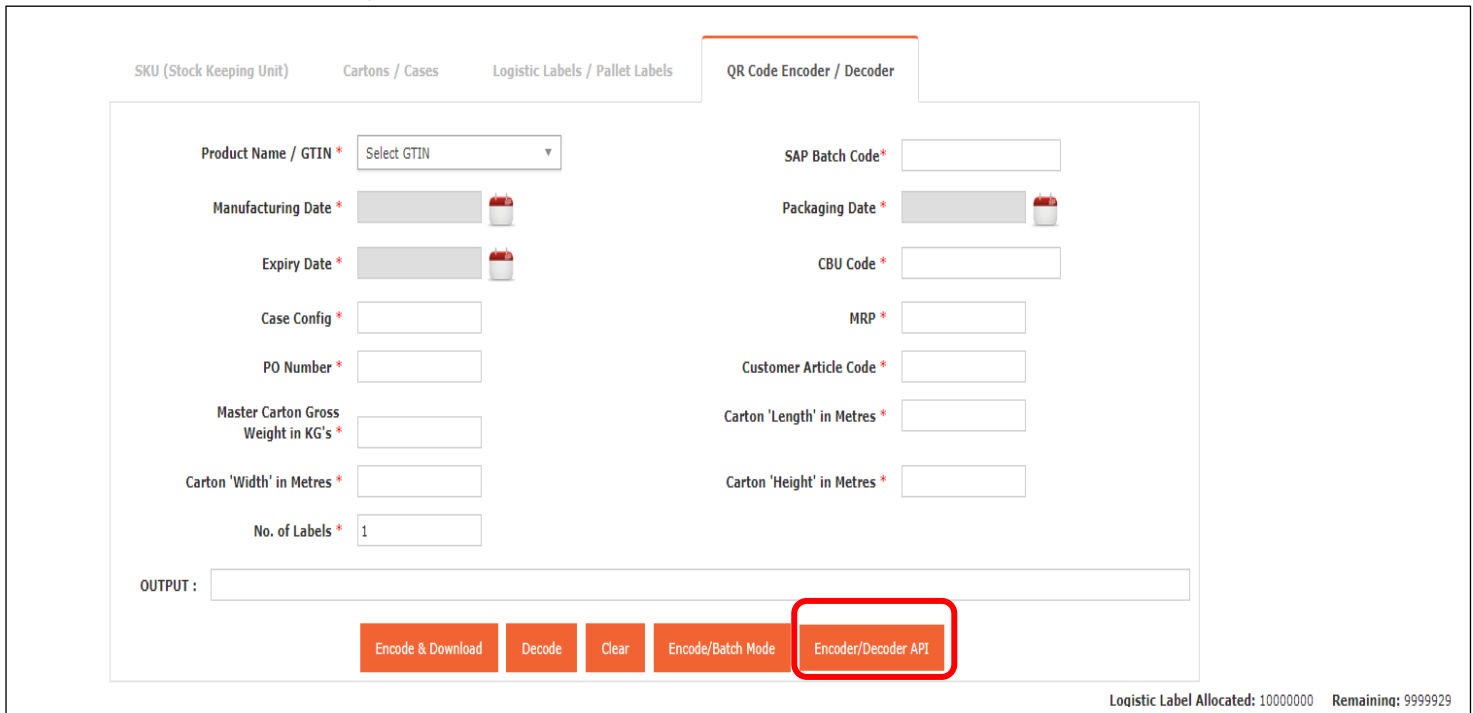
890600099.zip

Show all X

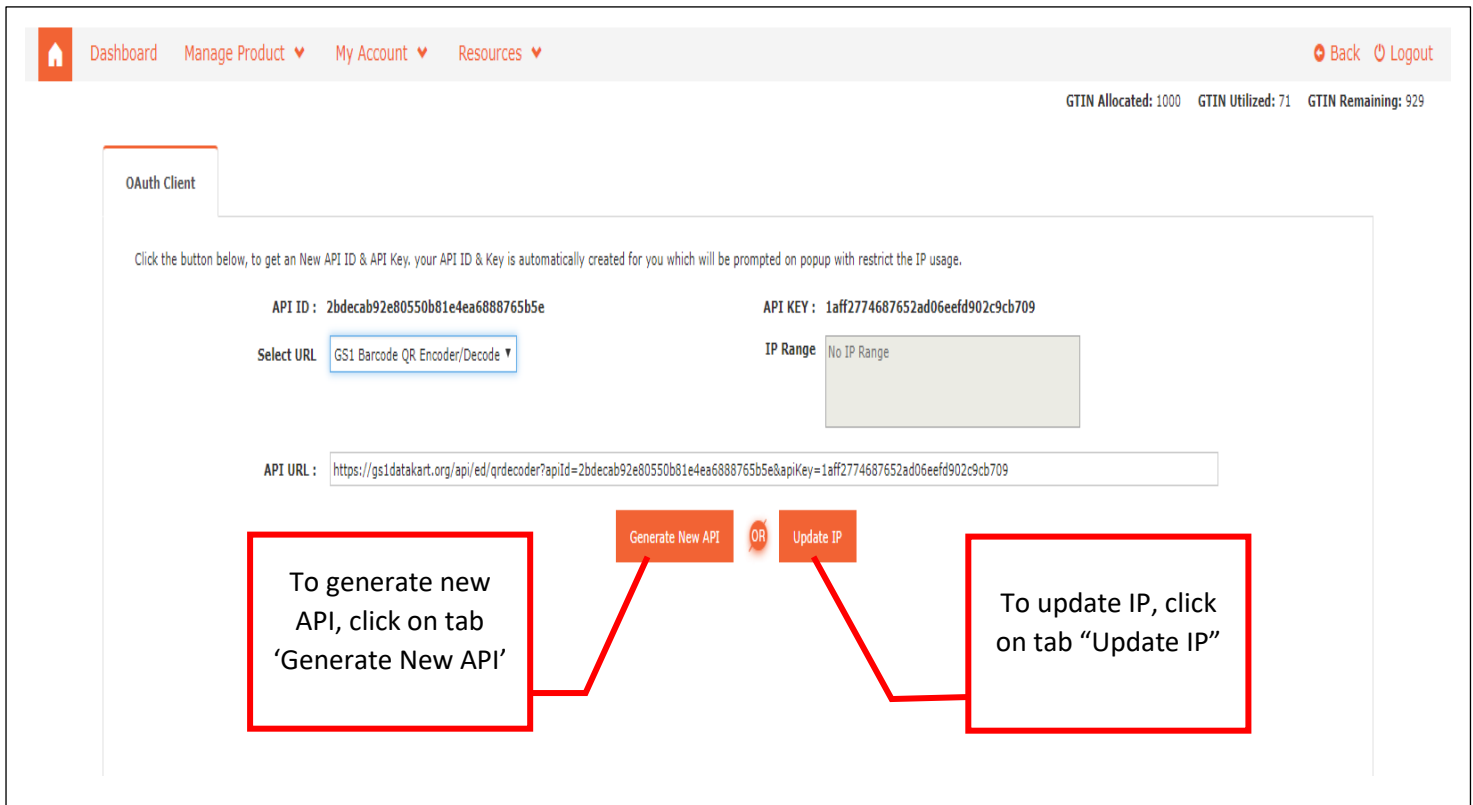
## 5. Generate logistic labels using QR code encoder/decoder API?

### Step 1) Generate API URL

- Go to Encode/Decode API



- Select URL "GS1 Barcode QR Encoder/Decoder API"



## Step 2) Call API

Sl. No.	Parameter	Detail
1	gtin	Length 13 digit
2	batch	Max length 20 digit
3	manufacturingDate	yyyy-mm-dd
4	pakagingDate	yyyy-mm-dd
5	expiryDate	yyyy-mm-dd
6	cbuCode	Max length 30 digit
7	caseConfig	Max length 8 digit
8	mrp	Max length 6 digit
9	pono	Max length 30 digit
10	articleCode	Max length 30 digit
11	cartonWeight	Max length 6 digit
12	cartonLength	Max length 6 digit
13	cartonWidth	Max length 6 digit
14	cartonHeight	Max length 6 digit
15	type	Encode/decode

### Sample XML:

URL Format:

<https://gs1datakart.org/api/ed/qrcodecoder?apild=2bdecab92e80550b81e4ea6888765b5e&apiKey=1aff2774687652ad06eefd902c9cb709>

```
{
  "gtin": "8906000990759",
  "batch": "batcg789",
  "manufacturingDate": "2018-12-10",
  "pakagingDate": "2018-11-10",
  "expiryDate": "2018-11-10",
  "cbuCode": "21321s21",
  "caseConfig": "21321334",
  "mrp": "23123",
  "pono": "2wqe313",
  "articleCode": "wqe321weq",
  "cartonWeight": "25.345",
  "cartonLength": "213",
  "cartonWidth": "56",
  "cartonHeight": "90",
  "type": "encode"
}
```

## Sample Response JSON


```
{
  "gtin": "0208906000990759",
  "manufacturingDate": "13181210",
  "expiryDate": "17181110",
  "cbuCode": "24121321S21",
  "batch": "10BATCG789",
  "pakagingDate": "92181110",
  "caseConfig": "3721321334",
  "sno": "21A0000001",
  "mrp": "9023123",
  "pono": "4002WQE313",
  "articleCode": "240WQE321WEQ",
  "cartonWeight": "3303025345",
  "cartonLength": "3310000213",
  "cartonWidth": "3320000056",
  "cartonHeight": "3330000090",
  "created_date": "2018-12-05 13:16:02",
  "image": "iVBORw0KGgoAAAANSUgAAAEoAAABKCAIAAACTsIUAAAACPKIEQVR42u2b0a7DMAhD16v9/
y93b1eTMqxjyF0dPE1dk0ZQwDbp9cLjvu//39d1iSrvv9Ws7+vfTyHrk/H3evS4Vs/8uEl6RttytXc11/
U22fPDvfeuyk87tfKYtqj2rX46idt1VpL3XHvz61VWJPI2Mo73/
KylM2G1TuXPXITneY9bqBczayYkcUjqarb30IrjOZD4medSFy1IYE43I2n0SFbTcaVxkrvbDMZAuNYuj+mY7OXsqk4+
PXPqXKSt7rlyvb6be8m7kxR7hE3zWkQ0FY6Hegwzo+7t9UMvPt3cSHh9KmrR9uN1yVUmOfcjeSGbMXBEQikBq9Rap+
FPSdVaKtustq9whov3uVJ+GMOvzKkjUNuP5MaJzkmY4bpCUoflxQpzD5M7Szev2mcqYyCYgPP3ib5C9lbNTc2cxIcuju
H8jbBKcmcS5qx6pRUOrOKN2LXHJKp1qncnVefkKJR34Tgf52df9NwMnZPXoonONen1EC3nMAZHt9rF9HkX1j2Rcc6Uda3eO/
mnGQPxb5Jij3Anzs14TdVFS0Iz53vCllkmueucCom6VK2lp3lNtBPOD0nUrbvK6++5+LN34nISA8nKSaiFjJ5vdYzx/
Ozm2zylzPXAhFPrK7uy7tNRC2fKfUaZY0636hLdLak7y1XnSW103xEdXQSLnm+luuqV+
y4QPdtVBs5XKD7ycLk2mct7hucLMIY8dfXj3xBpbDnpMR6d01ese7WLRBTXy5PqntujcT28q2byahwRex81ibeRap
5j7QAAAABJRUS5ErkJggg=="
}
```

Step 3) Convert base 64 to image convertor

**Note: Reference tools online:**


<https://onlinepngtools.com/convert-base64-to-png>

<https://codebeautify.org/base64-to-image-converter>


**base64**









```
iVBORw0KGgoAAAANSUgAAAEoAAABKCAIAAACTsIUAAAACPKIEQVR42u2b0a7DMAhD16v9/
y93b1eTMqxjyF0dPE1dk0ZQwDbp9cLjvu//39d1iSrvv9Ws7+vfTyHrk/H3evS4Vs/8uEl6RttytXc11/
U22fPDvfeuyk87tfKYtqj2rX46idt1VpL3XHvz61VWJPI2Mo73/
KylM2G1TuXPXITneY9bqBczayYkcUjqarb30IrjOZD4medSFy1IYE43I2n0SFbTcaVxkrvbDMZAuNYuj+mY7OXsqk4+
PXPqXKSt7rlyvb6be8m7kxR7hE3zWkQ0FY6Hegwzo+7t9UMvPt3cSHh9KmrR9uN1yVUmOfcjeSGbMXBEQikBq9Rap+
FPSdVaKtustq9whov3uVJ+GMOvzKkjUNuP5MaJzkmY4bpCUoflxQpzD5M7Szev2mcqYyCYgPP3ib5C9lbNTc2cxIcuju
H8jbBKcmcS5qx6pRUOrOKN2LXHJKp1qncnVefkKJR34Tgf52df9NwMnZPXoonONen1EC3nMAZHt9rF9HkX1j2Rcc6Uda3eO/
mnGQPxb5Jij3Anzs14TdVFS0Iz53vCllkmueucCom6VK2lp3lNtBPOD0nUrbvK6++5+LN34nISA8nKSaiFjJ5vdYzx/
Ozm2zylzPXAhFPrK7uy7tNRC2fKfUaZY0636hLdLak7y1XnSW103xEdXQSLnm+luuqV+
y4QPdtVBs5XKD7ycLk2mct7hucLMIY8dfXj3xBpbDnpMR6d01ese7WLRBTXy5PqntujcT28q2byahwRex81ibeRap
5j7QAAAABJRUS5ErkJggg==
```

Import from file
Save as...
Copy to clipboard


**png**





Chain with...
Save as...
Copy to clipboard

## 6. How to decode the string using API?

Step 1) Scan a barcode



Step 2) Copy string in API in the parameter 'output'

Sample URL:

<https://gs1datakart.org/api/ed/grdecoder?apild=2bdecab92e80550b81e4ea6888765b5e&apiKey=1aff2774687652ad06eefd902c9cb709&output=0208906000990056131812281719123124121321S21%1D10BATCG789%1D92181228%1D3712%1D21A0000691%1D901000%1D4002WQE313%1D240WQE321WEQ%1D3303012000331000000133200000013330000002&type=decode>

Sample Response

```
{"gtin":"8906000990056","batch":"BATCG789","packagingDate":"2018-12-28","caseConfig":"12",  
"sno":"A0000691","mrp":"1000","pono":"2WQE313","articleCode":"WQE321WEQ","cartonWeight":"12",  
"manufacturingDate":"2018-12-28","expiryDate":"2019-12-31","cbuCode":"21321S21",  
"cartonLength":"1","cartonWidth":"1","cartonHeight":"2","product_name":"Maaza"}
```