

FARGO COURIER API DOCUMENTATION

1. **Merchant website registration**

Before using the Fargo API, you need to register on the Fargo merchant website to get a token to use in your API calls.

Please register at: <https://api.bookacourier.co.ke/>

After registering, you will be able to add your website's domain and get a token- token is a unique code generated for each Domain that a merchants adds onto the site.

2. **Parcel Types**

The Fargo API has three types of parcels

- Envelopes Parcels
These parcel will be assigned a weight of 0.5kgs
- Cubical Parcels
These parcel will be expected to have a Weight, Width, Height & Length
- Cylindrical parcels
These parcels will be expected to have a Weight, Radius & Height

3. **Calculate shipping for consignment using the API.**

This API accepts input for one or more consignment and returns the price for each consignment separately

API URL:

https://api.bookacourier.co.ke/index.php?option=com_fargo_shipping&task=shippingregions.getItemsShippingMatrixValue&token={token}&shippingrequest={request}

{token} – A value generated for each Domain a merchants adds onto the site which confirms to the API that the request is coming from that website domain

{request} – Encoded Request to API containing consignment details as an array – See sample below

REQUEST GENERATION

Below is an example showing how to generate the shipping request variable.

```
//the main array containing a list of arrays that represents list of products to be shipped
$data=array();
```

```
//An array of product attributes
$dataitem=array();
```

```
//Details for Item 1
```

```
$dataitem1=array();
    $dataitem1['quantity']=3;//set to 1 if no value given
    $dataitem1['radius']=10;//set to 0 if item does not have radius
    $dataitem1['height']=0;//set to 0 if item has no height e.g an envelope
    $dataitem1['width']=0;//set to 0 if no value given
    $dataitem1['length']=5;//set to 0 if no value given
    $dataitem1['weight']=10;//set to 0 if no value given
    $dataitem1['dropoff']=6; //the town id.
    $dataitem1['pickup']=10; //the town id.
    $dataitem1['product_sku']=63; //the product code or id.
    $dataitem1['order_id']=110; //the order code or id.
```

```
//Recipient details
```

```
$dataitem1['dropoff']=10; //the town id.
$dataitem1['to_building']='Nyayo house';
$dataitem1['to_street']='Kenyatta Avenue';
$dataitem1['to_suburb']='CBD';
$dataitem1['to_additionalinfo']='10th floor';
$dataitem1['firstname']='Fulani';
$dataitem1['lastname']='Wa Fulani';
$dataitem1['telephone']='0721111111';
$dataitem1['email']='fulani@domain.com';
```

```
//Sender Details
```

```
$dataitem1[pickup]=6; //the town id.
$dataitem1['from_building']='NSSF house';
$dataitem1['from_street']='Kenyatta Avenue/Ngong road junction';
$dataitem1['from_suburb']='CBD';
$dataitem1['from_additionalinfo']='20th floor';
$dataitem1['from_firstname']='Fulani 2';
$dataitem1['from_lastname']='Wa Fulani 2';
$dataitem1['from_telephone']='0722222222';
$dataitem1['from_email']='fulani2@domain2.com';
```

//Details for Item 2

```
$dataitem2=array();
    $dataitem2['quantity']=3;//set to 1 if no value given
    $dataitem2['radius']=10;//set to 0 if item does not have radius
    $dataitem2['height']=0;//set to 0 if item has no height e.g an envelope
    $dataitem2['width']=0;//set to 0 if no value given
    $dataitem2['length']=5;//set to 0 if no value given
    $dataitem2['weight']=10;//set to 0 if no value given
    $dataitem2['dropoff']=6;
    $dataitem2['pickup']=10;
    $dataitem2['product_sku']=65; //the product code or id.
    $dataitem2['order_id']=110; //the order code or id.
```

//Recipient details

```
$dataitem2['dropoff']=6;
    $dataitem2['to_building']='Nyayo house';
    $dataitem2['to_street']='Kenyatta Avenue';
    $dataitem2['to_suburb']='CBD';
    $dataitem2['to_additionalinfo']='10th floor';
    $dataitem2['firstname']='Fulani';
    $dataitem2['lastname']='Wa Fulani';
    $dataitem2['telephone']='0721111111';
    $dataitem2['email']='fulani@domain.com';
```

//Sender Details

```
$dataitem2[pickup]=6; //the town id.
    $dataitem2['from_building']='NSSF house';
    $dataitem2 ['from_street']='Kenyatta Avenue/Ngong road junction';
    $dataitem2 ['from_suburb']='CBD';
    $dataitem2 ['from_additionalinfo']='20th floor';
    $dataitem2 ['from_firstname']='Fulani 2';
    $dataitem2 ['from_lastname']='Wa Fulani 2';
    $dataitem2 ['from_telephone']='0722222222';
    $dataitem2 ['from_email']='fulani2@domain2.com';
```

//Add to main array

```
$data[]=$dataitem1;
    $data[]=$dataitem2;
```

// Encode Request

```
var shippingrequest;
shippingrequest= base64_encode (json_encode( $data ));
```

/* Example of shipping request variable for the Output for above

W3siaGVpZ2h0IjoxMCwid2lkdGgiOjUsImxlbmd0aCI6Nywid2VpZ2h0Ijo2LCJkcm9wb2ZmIjo0LCJ

waWNrdXAiOjZ9LHsiaGVpZ2h0IjoxNSwid2lkdGgiOjcsImxlbmd0aCI6Nywid2VpZ2h0IjoxLCJkcm9wb2Zmljo0LCJwaWNrdXAiOjV9LHsiaGVpZ2h0IjoxNywid2lkdGgiOjIwLCJsZW5ndGgiOjcsIndlaWdodCI6NywiZHZvcG9mZiI6NiwicGlja3VwIjoxMH1d

*/

IMPORTANT THINGS TO NOTE

1. Ensure all fields are included in your array before making the API call i.e

```
$dataitem['quantity']=1;
$dataitem['radius']=0;**
$dataitem['height']=0;
$dataitem['width']=0;
$dataitem['length']=0;
$dataitem['weight']=00;
$dataitem['dropoff']=1; ***( important)
$dataitem['pickup']=2; ***(important)
$dataitem['product_sku']=657;
$dataitem['order_id']=110
$dataitem['from_firstname']='Fulani 2';
$dataitem['from_lastname']='Wa Fulani 2';
$dataitem['from_telephone']='0722222222';
$dataitem['firstname']='Fulani';
$dataitem['lastname']='Wa Fulani';
$dataitem['telephone']='0721111111';
```

** incase a dimension is not applicable e.g radius for a cubical parcel, use **zero** as the value.

*** Dropoff & pickup must be Ids of towns that Fargo delivers to. Towns data is obtained from the Towns API below.

2. Results will be returned in **json** data format.

Sample result for above request:

```
{"shipping_cost":4300,"Message":"Request successful", "consignmentid":139,
"itemized":{"63":"2150","64":"2150"}}
```

This is the total shipping cost, Message from the API, Consignment number and Itemized refers to the results for each request sent, returning the your product id and the respective cost of shipping. In the sample case the data array had two items 64 and 65 each of them costing 2150 KES.

However if the two items 64 and 65 had the same destination. This is calculated as one consignment the results of this will be: Consignment number and Itemized refers to the results for the request sent, returning the your order_id:

```
{"shipping_cost":4300,"Message":"Request successful", "consignmentid":139,
"itemized":{"110":"2150"}}
```

3. The "consignmentid" value will be used in subsequent calls to the Fargo API to update the status or request status of the shipment.

4. Get towns API

This API returns all the Towns Fargo courier delivers to & their Zone IDs. To be able to get correct calculation of prices, kindly ensure users select from one of these towns, since these are the towns covered by Fargo Courier Operations

API URL: _

https://api.bookacourier.co.ke/index.php?option=com_fargo_shipping&task=shippingregions.getRegions&token={token}

{token} – The token value generated for each Domain that a merchants adds onto the site which confirms to the API that the request is coming from that website domain

The API returns the Towns in **json** format.

5. Notify Fargo to deliver API

After payment for the goods bought on the shopping cart is **completed** (i.e The Payment gateway has verified the payment and returned a success message to your website) send a notification to Fargo to effect delivery of the shipment.

API URL:

https://api.bookacourier.co.ke/index.php?option=com_fargo_shipping&task=shippingregions.updatePaymentStatus&token={token}&consignmentid={consignmentid}&status=4

The value of the consignment ID is returned from the Shipping cost API above.

6. Adapting API to different programming languages

This API uses RESTful Webservices and uses json data format to communicate.

Ensure to use the correct syntax in your respective language for the following instances:

1. json encoding of Associative Array or Dictionary
2. base 64 encoding
3. Curl Request

The API will return an object in json format.