

VERSION 2.00

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# SHIPPING REST API INTEGRATIONDOCUMENT

PREPARED BY: YASEER P KHADAR

## CHANGE HISTORY

| Document Version | Service Version | Date           | Owner      | Description |
|------------------|-----------------|----------------|------------|-------------|
| 1.0              | 1.0             | DEC 12, 2017   | QATAR POST | First Draft |
| 1.0              | 1.2             | MAY 3, 2018    | QATAR POST | updated     |
| 2.0              | 2.0             | March 24, 2020 | QATAR POST | Updated     |

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## 1. Description.

This document is designed to help developers and Qatar Post Customers in fully understanding and integrating our API for a seamless and easy deployment.

The API are listed along with their required parameters if any, and their example requests and responses below, for easy understanding.

Please Note that in order to use the API, you will need to get user name and password from Qatar Post IT. If you haven't received it yet please connect to your Qatar Post Account Manager.

This API can be used to integrate with any Business Partner's system / e-commerce site for pushing order pick-up, delivery and track shipment.

### 1.1 Get User Authentication

#### **User Authentication**

The authentication token is the authorization that you need to pass in order to access Qatar Post Postal System. This authorization helps us to validate that you are a valid Qatar Post Business Client.

Use this API to validate your API user and obtain the authentication token.

#### **Get User Authentication Token**

Pass your API user 'Username' and 'Password' as the parameters in the request body to get back user details and the authentication token as response. This token is to be used as the authentication parameter for the further access.

Note: The token is valid for 15mins, post which you will have to regenerate the token.

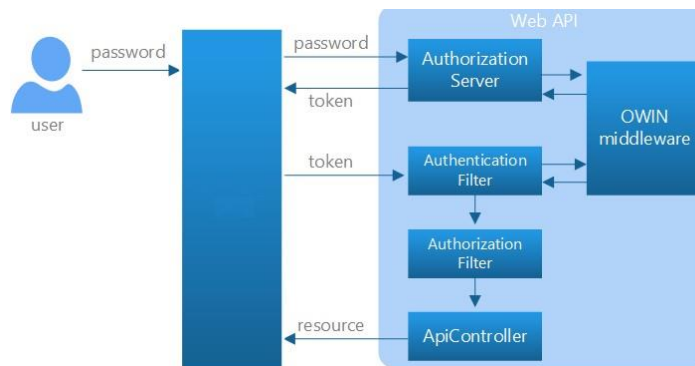


Figure 1: Token based authentication

#### **Request Url**

POST: <http://apps.qpost.com.qa/shipmentapi/get/token>

**Header**

POST: <http://apps.qpost.com.qa/shipmentapi/get/token>

Content-type: application/json

Authorization: Basic: <username>: <password>

Note: Username and password has to be base64 encoded.

**Response**

Get the token in response header of the format xxxx-xxxx-xxxx-xxxx

If invalid credentials are provided HTTP STATUS 401 Unauthorized will be returned.

**2. Get Partner token**

Pass your API user 'Username' as the parameters in the request body to get back user details and the authentication token as response. This token is to be used as the authentication parameter for the further access of the other API's.

Copy this token and use it for the further call of the API's.

Your API keys carry many privileges, so be sure to keep them secure! Do not share your secret token in publicly accessible areas such as GitHub, client-side code, and so forth.

**Request Url**

GET: <http://apps.qpost.com.qa/shipmentapi/partner/authentication/get/authcode/{username}>

**Header**

GET: <http://apps.qpost.com.qa/shipmentapi/partner/authentication/get/authcode/{username}>

Content-type: application/json

Token: xxxx-xxxx-xxxx-xxxx (API Token)

**Response**

Get the partner token in the format: xxxx-xxxx-xxxx-xxxx

```
{
  "errors": [],
  "data": "jy670rq3-8kX6-nR39-w2P4-isUx21ufN9ir",
  "isSuccessful": true
}
```

### 3. Request to create the partner order

Using these API, you can create new orders in your account.

#### **Header**

POST: <http://apps.qpost.com.qa/ShipmentAPI/partner/order/create> HTTP/1.1

Content-type: application/json

Token: <API TOKEN>

Partner-Token: <PARTNER TOKEN>

#### **Body**

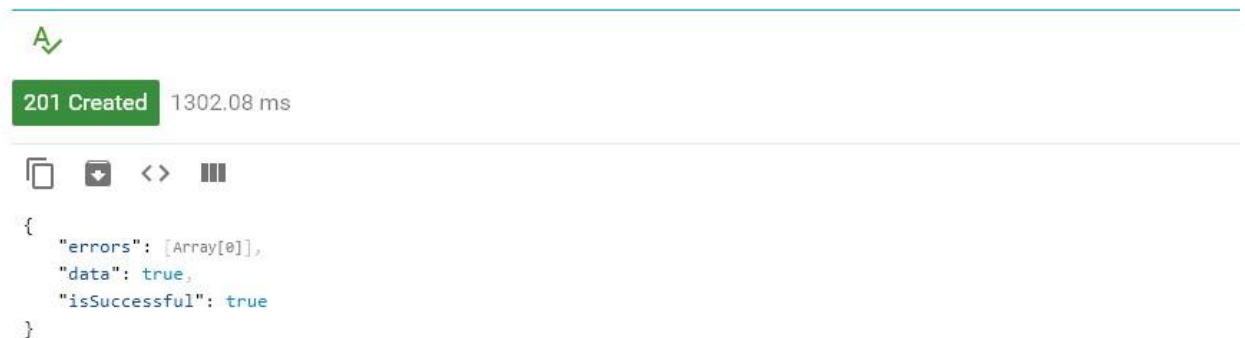
```
[
  {
    "orderID": "1238967435",
    "subOrderID": "567885",
    "trackingNumber": "QPMXXXXXXXXXX",
    "customerName": "fahad",
    "customerMobile": "987654321",
    "MerchantName": "Dynax",
    "MerchantStore": "Dynax Store",
    "MerchantPhone": "33015634",
    "delivery_Zone": "2",
    "delivery_Street": "3",
    "delivery_BuildingNo": "4",
    "delivery_UnitNo": "5",
    "pickup_Zone": "2",
    "pickup_Street": "67",
    "pickup_Building": "2",
    "pickup_Unitno": "s3",
    "location_Details": "near to filafil round about",
    "deliveryType": "homeDelivery",
    "deliveryScheduletype": "2018-08-14T12:00:00.000Z-2018-08-14T14:00:00.000Z",
    "zoneType": "Inside Doha",
    "productDiscription": "Pen",
    "weight": 19.0,
    "quantity": 20,
    "TransectionType": 1,
    "currentStatus": 5,
    "createdDate": "2017-10-10T07:23:07.1622468+03:00"
  }
]
```

| PARAMS               | REQUIRED | DATA TYPE    | DESCRIPTION   | EXAMPLE   |
|----------------------|----------|--------------|---|---|
| order_id             | YES      | String (50)  | Order ID created by your system   | 1238967435  |
| subOrderID           | YES      | String (50)  |   | 567885  |
| trackingNumber       | YES      | String (50)  | This tracking number you can use it to track your order from our API or website | QP123456789XY                                     |
| customerName         | YES      | String (100) | Name of the customer  | Fahad   |
| customerMobile       | YES      | String (20)  | Customer's mobile number  | 32141569  |
| MerchantName         | YES      | String (50)  | Your company name   | Carrefour   |
| MerchantStore        | NO       | String (50)  | Your store name or branch   | Carrefour Doha                                    |
| MerchantPhone        | NO       | String (20)  | Your store contact number   | 31245675  |
| delivery_Zone        | YES      | String (50)  | Zone no. of the customer  | 23  |
| delivery_Street      | YES      | String (50)  | Street no. of the customer  | 121   |
| delivery_BuildingNo  | YES      | Integer (50) | Building no. of the customer  | 54  |
| delivery_UnitNo:     | YES      | Integer (50) | Unit no. of the customer  | 124   |
| pickup_Zone          | YES      | Integer (50) | Zone no. of the pickup location   | 21  |
| pickup_Street        | YES      | Integer (50) | Street no. of the pickup location   | 145   |
| pickup_Building      | YES      | Integer (50) | Building no. of the pickup location   | 78  |
| pickup_Unitno        | YES      | Integer (50) | Unit no. of the pickup location   | 95  |
| location_Details     | YES      | String (150) | Landmark of the pickup location   | Near to Al Mannai round about                     |
| deliveryType         | YES      | String (50)  | Is it home delivery or PO box delivery  | Home Delivery                                     |
| deliveryScheduletype | YES      | String (50)  |   | 2020-08-14T12:00:00.000Z-2018-08-14T14:00:00.000Z |

|                    |     |              |                               |                                   |
|--------------------|-----|--------------|-------------------------------|-----------------------------------|
| zoneType           | YES | String (50)  | Inside Doha or Outside Doha   | Inside Doha                       |
| productDiscription | YES | String (200) | Information about the product | Pen                               |
| Weight             | YES | Decimal      | Weight of the product         | 19                                |
| Quantity           | YES | Integer      | Quantity of the products      | 20                                |
| TransectionType    | YES | Integer      | Default                       | 1                                 |
| currentStatus      | YES | Integer      | Default                       | 5                                 |
| createdDate        | YES | DateTime     |                               | 2017-10-10T07:23:07.1622468+03:00 |

### Response HTTP/1.1 201 Created

```
{
  "errors": [],
  "data": true,
  "isSuccessful": true
}
```



### 3.1 Error Codes

| STATUS CODE | DESCRIPTION                           |
|-------------|---------------------------------------|
| QPS0001     | Partner(s) order(s) not found         |
| QPS0002     | Not Created                           |
| QPS0005     | Partner authentication code not found |
| QPS0010     | Tracking No Already Used              |



#### 4. Request to track order details by tracking number

Get the details of a specific Shipment by passing the value of tracking number in the endpoint url. Both API and Partner Token need to be passed.

*Recommendation: Please send a request at an interval of 30mins for uninterrupted service. All the status will be received in the response.*

##### Header

GET: <http://apps.qpost.com.qa/ShipmentAPI/partner/order/{trackingNo}>

Content-type: application/json

Token: <API TOKEN>

Partner-Token: <PARTNER TOKEN>

##### Url

<http://apps.qpost.com.qa/ShipmentAPI/partner/order/{trackingNo}>

#### 4.1 Tracking Status Codes

| ItemActionID | ActionName       | Description             |
|--------------|------------------|-------------------------|
| 5            | CREATED          | Order Created (default) |
| 2            | PICKUP           | Pick Up Done            |
| 3            | RECEIVED         | Received at GPO         |
| 9            | ASSIGNEDTODRIVER | Assigned to the Driver  |
| 4            | OUTFORDELV       | Out For Delivery        |
| 6            | DELIVERED        | Shipment delivered      |
| 7            | CANCELED         | Shipment canceled       |
| 8            | FAILED           | Shipment failed         |
| 19           | PICKUPFAILED     | Pickup failed           |
| 17           | RTS              | Returned to Sender      |

##### Response HTTP/1.1 200 OK

```
{
  "errors": [],
  "data": [
    {
      "tracking_No": "QP155096690HB",
      "item_Action_Id": 1,
      "item_Action_Name": "DELIVERED",

```

```
"action_Date": "2007-04-24T00:00:00",
"action_Time": "1900-01-01T10:33:41",
"operator_Name": "ABEER MOHD S MOHD+",
"totalRows": 5
},
{
  "tracking_No": "QP155096690HB",
  "item_Action_Id": 2,
  "item_Action_Name": "OUTOFDELV",
  "action_Date": "2007-04-24T00:00:00",
  "action_Time": "1900-01-01T10:33:41",
  "operator_Name": "ABEER MOHD S MOHD+",
  "totalRows": 5
},
{
  "tracking_No": "QP155096690HB",
  "item_Action_Id": 3,
  "item_Action_Name": "PENDING",
  "action_Date": "2007-04-24T00:00:00",
  "action_Time": "1900-01-01T10:33:41",
  "operator_Name": "ABEER MOHD S MOHD+",
  "totalRows": 5
},
{
  "tracking_No": "QP155096690HB",
  "item_Action_Id": 4,
  "item_Action_Name": "RECIEVED",
  "action_Date": "2007-04-24T00:00:00",
  "action_Time": "1900-01-01T10:33:41",
  "operator_Name": "ABEER MOHD S MOHD+",
  "totalRows": 5
},
{
  "tracking_No": "QP155096690HB",
  "item_Action_Id": 5,
  "item_Action_Name": "CREATED",
  "action_Date": "2007-04-24T00:00:00",
  "action_Time": "1900-01-01T10:33:41",
  "operator_Name": "ABEER MOHD S MOHD+",
  "totalRows": 5
}
},
"isSuccessful": true
```

```

    }

    -3: {
      "tracking_No": "QP155096690HB",
      "item_Action_Id": 4,
      "item_Action_Name": "RECIEVED",
      "action_Date": "2007-04-24T00:00:00",
      "action_Time": "1900-01-01T10:33:41",
      "operator_Name": "ABEER MOHD S MOHD+",
      "totalRows": 5
    },
    -4: {
      "tracking_No": "QP155096690HB",
      "item_Action_Id": 5,
      "item_Action_Name": "CREATED",
      "action_Date": "2007-04-24T00:00:00",
      "action_Time": "1900-01-01T10:33:41",
      "operator_Name": "ABEER MOHD S MOHD+",
      "totalRows": 5
    }
  ],
  "isSuccessful": true
}

```

200 OK 157.39 ms



```

{
  "errors": [Array[0]],
  -"data": [Array[5]]
    -0: {
      "tracking_No": "QP155096690HB",
      "item_Action_Id": 1,
      "item_Action_Name": "DELIVERED",
      "action_Date": "2007-04-24T00:00:00",
      "action_Time": "1900-01-01T10:33:41",
      "operator_Name": "ABEER MOHD S MOHD+",
      "totalRows": 5
    },
    -1: {
      "tracking_No": "QP155096690HB",
      "item_Action_Id": 2,
      "item_Action_Name": "OUTOFDELV",
      "action_Date": "2007-04-24T00:00:00",
      "action_Time": "1900-01-01T10:33:41",
      "operator_Name": "ABEER MOHD S MOHD+",
      "totalRows": 5
    },
    -2: {
      "tracking_No": "QP155096690HB",
      "item_Action_Id": 3,
      "item_Action_Name": "PENDING",
      "action_Date": "2007-04-24T00:00:00",
      "action_Time": "1900-01-01T10:33:41",
      "operator_Name": "ABEER MOHD S MOHD+",
      "totalRows": 5
    }
  ]
}

```

## 5. Request to track order details by collection of tracking numbers

Use this API to get the shipment details of all the shipments in your account.

*Recommendation: Please send a request at an interval of 30mins for uninterrupted service. All the status will be received in the response.*

### 5.1 Header

POST: <http://apps.qpost.com.qa/ShipmentAPI/partner/order/trackingNumbers>

Content-type: application/json

Token: <API Token>

Partner-Token: <Partner Token>

### Body

```
{
  "pageNumber": 1,
  "trackingNumbers": [
    "QP000001029CQ",
    "QP000001030CQ"
  ]
}
```

### 5.1 Tracking Status Codes

| ItemActionID | ActionName       | Description             |
|--------------|------------------|-------------------------|
| 5            | CREATED          | Order Created (default) |
| 2            | PICKUP           | Pick Up Done            |
| 3            | RECEIVED         | Received at GPO         |
| 9            | ASSIGNEDTODRIVER | Assigned to the Driver  |
| 4            | OUTFORDELV       | Out For Delivery        |
| 6            | DELIVERED        | Shipment delivered      |
| 7            | CANCELED         | Shipment canceled       |
| 8            | FAILED           | Shipment failed         |
| 19           | PICKUPFAILED     | Pickup failed           |
| 17           | RTS              | Returned to Sender      |

### Response HTTP/1.1 200 OK

```
{
  "errors": [],
```

```
"data": [  
  {  
    "tracking_No": "QP000001030CQ",  
    "item_Action_Id": 6,  
    "item_Action_Name": "DELIVERED",  
    "action_Date": "2020-02-27T11:42:03",  
    "action_Time": "2020-02-27T11:42:03",  
    "operator_Name": "sabiram@qatarposts.com",  
    "totalRows": 9  
  },  
  {  
    "tracking_No": "QP000001030CQ",  
    "item_Action_Id": 3,  
    "item_Action_Name": "RECIEVED",  
    "action_Date": "2020-02-27T10:13:42",  
    "action_Time": "2020-02-27T10:13:42",  
    "operator_Name": "erfatma@qatarposts.com",  
    "totalRows": 9  
  },  
  {  
    "tracking_No": "QP000001030CQ",  
    "item_Action_Id": 5,  
    "item_Action_Name": "CREATED",  
    "action_Date": "2020-02-27T07:20:00.527",  
    "action_Time": "2020-02-27T07:20:00.527",  
    "operator_Name": "1",  
    "totalRows": 9  
  },  
  {  
    "tracking_No": "QP000001030CQ",  
    "item_Action_Id": 6,  
    "item_Action_Name": "DELIVERED",  
    "action_Date": "2020-02-27T00:00:00",
```

```
"action_Time": "2020-02-27T00:00:00",
"operator_Name": "General Post Office",
"totalRows": 9
},
{
  "tracking_No": "QP000001029CQ",
  "item_Action_Id": 6,
  "item_Action_Name": "DELIVERED",
  "action_Date": "2020-02-20T20:30:50",
  "action_Time": "2020-02-20T20:30:50",
  "operator_Name": "cc-salma@qatarposts.com",
  "totalRows": 9
},
{
  "tracking_No": "QP000001029CQ",
  "item_Action_Id": 13,
  "item_Action_Name": "Delivery Follow-up Success",
  "action_Date": "2020-02-20T10:59:11",
  "action_Time": "2020-02-20T10:59:11",
  "operator_Name": "sabiram@qatarposts.com",
  "totalRows": 9
},
{
  "tracking_No": "QP000001029CQ",
  "item_Action_Id": 3,
  "item_Action_Name": "RECIEVED",
  "action_Date": "2020-02-20T10:55:24",
  "action_Time": "2020-02-20T10:55:24",
  "operator_Name": "sabiram@qatarposts.com",
  "totalRows": 9
},
{
  "tracking_No": "QP000001029CQ",
```

```
"item_Action_Id": 5,
"item_Action_Name": "CREATED",
"action_Date": "2020-02-20T10:10:29.77",
"action_Time": "2020-02-20T10:10:29.77",
"operator_Name": "1",
"totalRows": 9
},
{
  "tracking_No": "QP000001029CQ",
  "item_Action_Id": 6,
  "item_Action_Name": "DELIVERED",
  "action_Date": "2020-02-20T00:00:00",
  "action_Time": "2020-02-20T00:00:00",
  "operator_Name": "General Post Office",
  "totalRows": 9
}
],
"isSuccessful": true
}
```