

## WasselExpress Restful Api Integration



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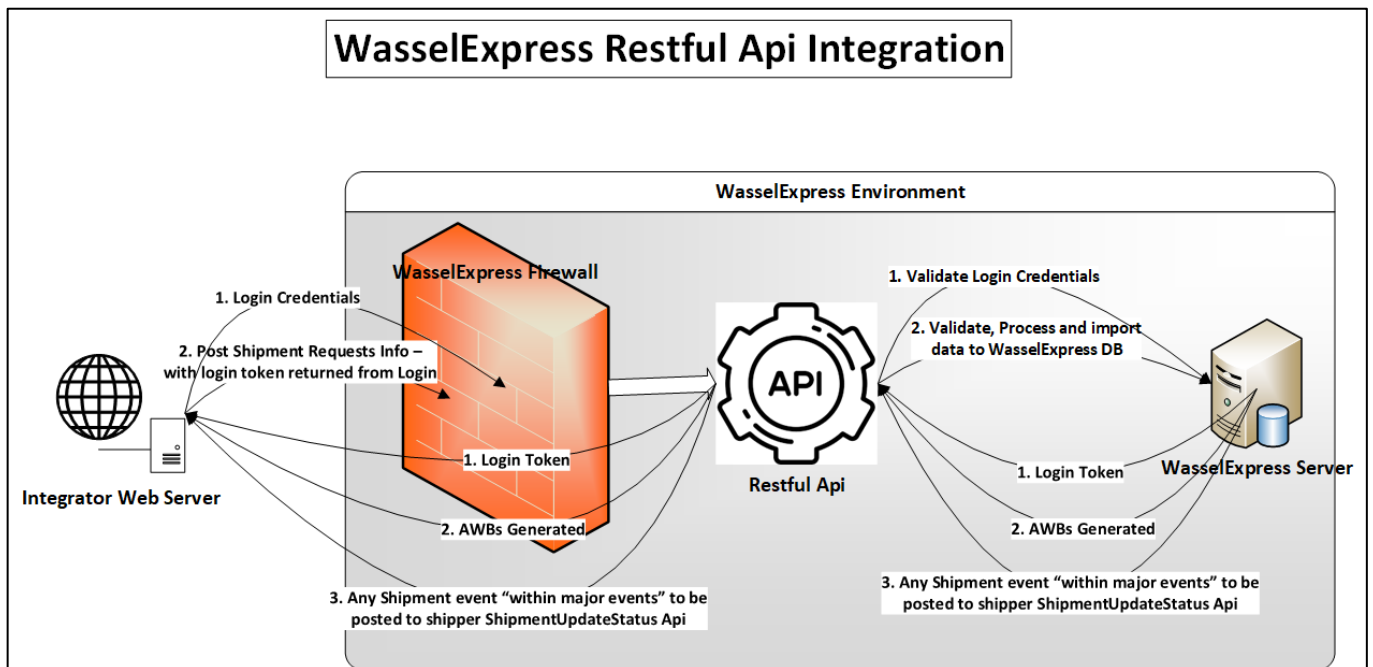
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## Definition

WasselExpress Integration API is one of the official integration channels with WasselExpress delivery and tracking system.

## API Integration Architecture

To provide an open Api integration architecture with high availability and high performance we implement our solution as below, showing that Integrator web server access to WasselExpress integration through the **WasselExpress Restful Api**.



## Api Integration Prerequisites

1. Integrator Web Server publicly available for “**ShipmentUpdateStatus**” Api.
2. “**ShipmentUpdateStatus**” Api url to be shared with Technical team.
3. To start communicating with Api, account credentials will be provided by technical team.
4. Posting Shipment Requests should include login api “token” as a header.

## Api Integration Steps

1. Integrator post login credentials, in case of valid **login Api** returns token.

## Login API URL

<http://demoapi.wasselexpress.com/API/Account/Login>

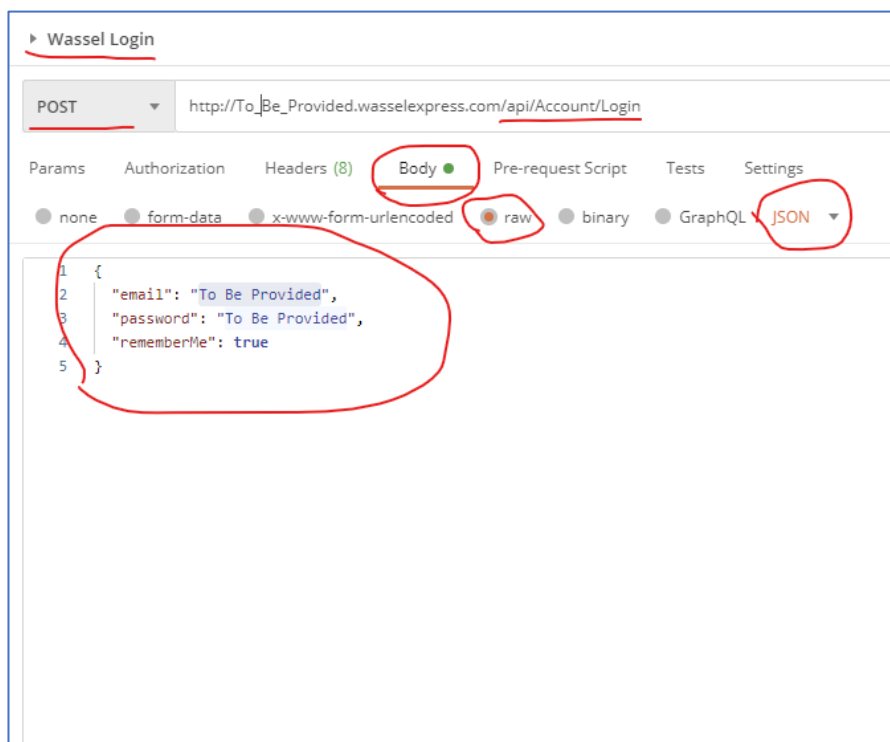
with the below Request schema:

```
{
  "email": "string",
  "password": "string",
  "rememberMe": true
}
```

Response is a token string like below

200

Response body

[illegible]

- Integrator posts shipment Requests to system through "SubmitShippingRequests" api with the below schema, multiple shipment requests are available.

```
[
  {
    "pieceId": null,
    "lat": "final delivery lat location - optional field",
    "lng": "final delivery lng location - optional field",
    "companyStoreID": int supplied from Delivery Company - Required field,
    "recipientCity": "e.g. Amman - Required field ",
    "recipientArea": "e.g. Khalda - optional field",
    "remark": "any remark e.g. deliver after 6:00PM - optional field",
    "addressDescription": "Additional address Info e.g. Beside supermarket abc - Required field",
    "recipientName": "Recipient Name - Required field",
    "recipientEmail": "Optional field",
    "recipientPhoneNumber": "Required field",
    "recipientSecondPhoneNumber": "Optional field",
    "codAmount": "optional - if empty or null it will be Zero",
    "itemDetails": "more details about item e.g. breakable - optional field",
    "referenceID": "Shipper Reference Number - Required field and Unique Per Shipper",
    "companyID": null,
    "itemWeight": "Optional field",
    "itemDimension": "Optional field",
    "productType": "mapped service code supplied from Delivery Company - Optional field"
  },...
]
```

Example request

```
[
  {
    "pieceId": null,
    "lat": null,
    "lng": null,
    "companyStoreID": 12,
    "recipientCity": "Amman",
    "recipientArea": "Khalda",
    "remark": "deliver after 6:00PM",
    "addressDescription": " Beside supermarket abc",
    "recipientName": "Recipient Name - Required field",
    "recipientEmail": "a@b.c",
    "recipientPhoneNumber": "96279XXXXXXX",
    "recipientSecondPhoneNumber": null,
    "codAmount": "22.5",
    "itemDetails": "breakable",
    "referenceID": "002211",
    "companyID": null,
    "itemWeight": null,
    "itemDimension": null,
    "productType": null
  }
]
```

Response as below

```
{
```

```
"isSuccess": bool,
"validations": ValidationMessageDto[],
"data": [
  {
    "referenceNumber": "Shipper reference number",
    "pieceId": null,
    "awb": "Our system Tracking Number",
    "awB_File": byte[]
  }
],
"httpStatusCode": HttpStatusCode
}
```

Please note here the validation message structure  
ValidationMessageDto

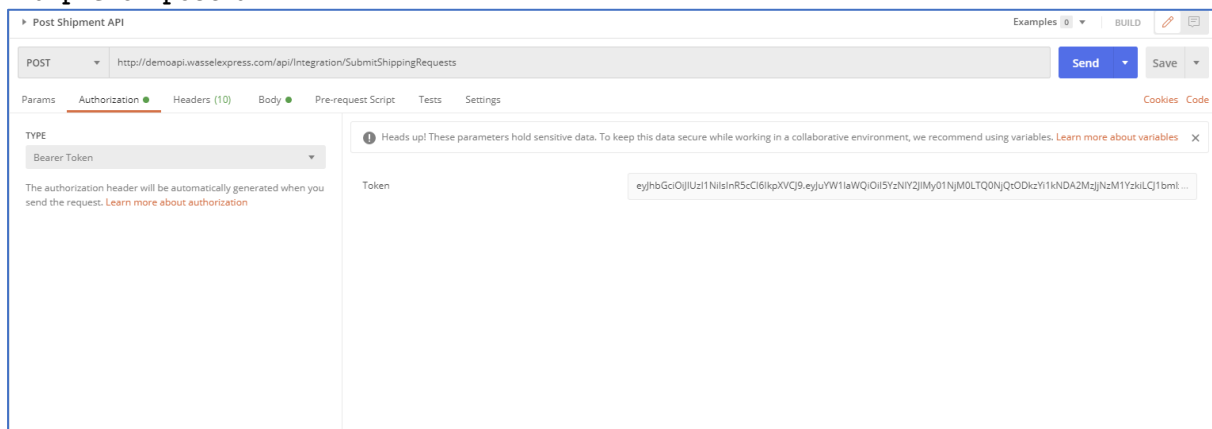
```
{
  string Code
  string Message
  string ExceptionMessage
}
```

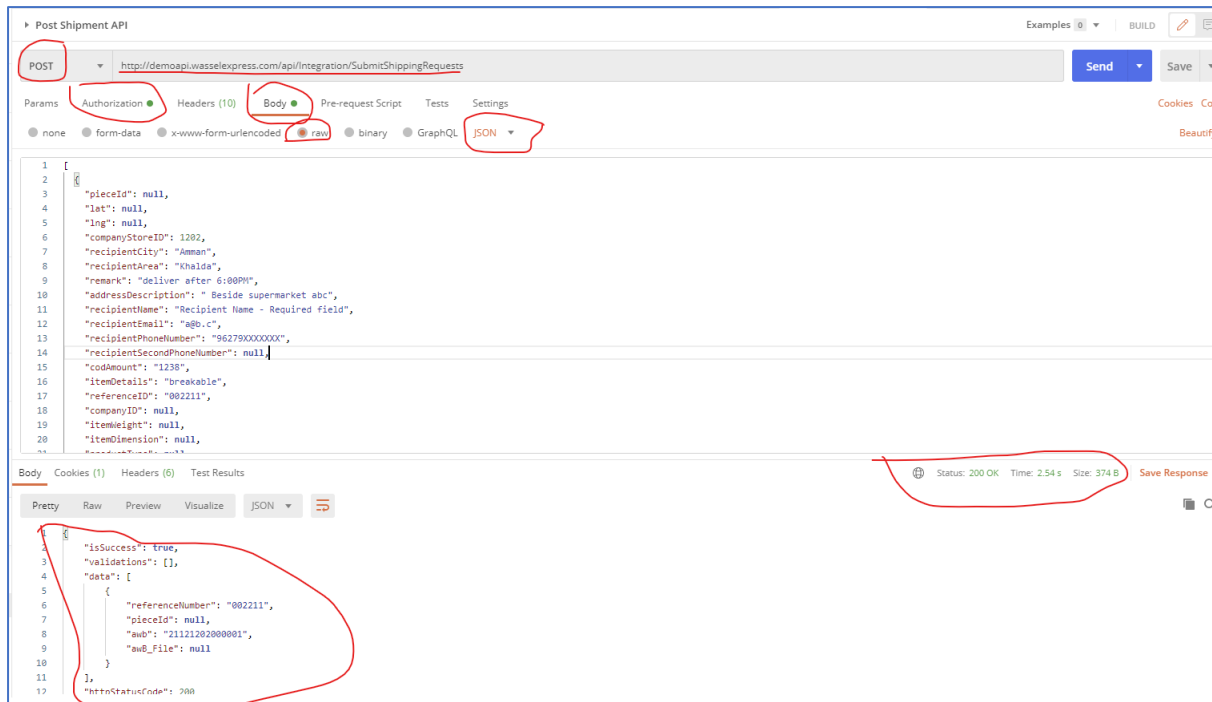
### Response Example

```
{
  "isSuccess": true,
  "validations": [],
  "data": [
    {
      "referenceNumber": "002211",
      "pieceId": null,
      "awb": "20110012000022",
      "awB_File": "JVB...0Y="
    }
  ],
  "httpStatusCode": 200
}
```

**Note:** Data will retrieve a pdf file generated from the system includes AWBs for the shipments

### Example on postman





- Our System will generate an update post to Integrator API, based on the provided API url for the integrator, data format will be as below

```
{
    ItemReferenceNo = string,
    Status = int,
}
```

#### Status values:

- Common Status checkpoints:
  - Assign driver to pick up from shipper\Airport: 60
  - Picked up by a driver: 100
  - Item Stored in warehouse: 120
  - Shipment out for Delivery: 130
  - Shipment delivered to customer: 170
  - Shipment returned from customer: 180
  - Shipment returned to Shipper "RTO": 210
- Special Outbound checkpoints
  - Departed to Airport: 121
  - Item Returned to Returned Shelf: 190
  - Departed from Origin - Outgoing: 123
  - Departed from Origin - Incoming: 51
  - Arrival to gateway - Incoming: 56
  - Under clearance Process - Incoming: 57
  - Custom Released - Incoming: 58

- To post any updates to our system, use the below API,

"/api/Integration/UpdateShipmentItems"

#### Request Body Structure

```
[
{
  "referenceNumber": "string",
  "awb": "string",
  "actionType": 10,
  "additionalInformation": [
    {
      "type": 1,
      "value": "string"
    }
  ]
}
]
```

Below are action types list with the needed additional fields

| RequestActionID | TitleAr                          | TitleEn                               | Needed Additional Parameters   |
|-----------------|----------------------------------|---------------------------------------|--|
| 56              | الوصول إلى مخرج المطار -<br>وارد | Arrival To Gatway -<br>Incoming       | ActionDate   |
| 57              | تحت عملية التخليص - وارد         | Under Clearance Process -<br>Incoming | ActionDate   |
| 58              | انتهى من الجمارك - وارد          | CustomReleased -<br>Incoming          | ActionDate   |
| 60              | تم التعيين للسائق                | Assigned To Driver                    | ActionDate   |
| 100             | تم الاستلام من السائق            | Driver Picked up                      | ActionDate, Location   |
| 120             | على الرف                         | On The Shelf                          | ActionDate, Facility Name  |
| 121             | غادر إلى المطار - صادر           | Departed To Airport -<br>Going        | ActionDate   |
| 122             | وضع في المطار - صادر             | Dropped In Airport - Going            | ActionDate, Location   |
| 123             | غادر من المنشأ - صادر            | Departed From Origin -<br>Going       | ActionDate   |
| 130             | الخروج للتسليم                   | Checkout for Delivery                 | ActionDate   |
| 170             | تم التسليم للعميل                | Delivered To Customer                 | ActionDate, Location, POD  |
| 180             | تم الارجاع من العميل             | Void From Customer                    | ActionDate, Location,<br>ReasonCode, ReasonText "incase<br>Reason Code 90", DeliveryFees<br>"incase Reason Code 100" |
| 190             | رف الراجع                        | Returned Shelf                        | ActionDate, Facility Name  |
| 200             | تنتظر الارجاع للشاحن             | To Be Returned To Shipper             | ActionDate, Facility Name  |
| 210             | راجع للشاحن                      | Returned To Shipper                   | ActionDate, Facility Name  |
| 213             | تم الارجاء من خلال السائق        | Returned By Driver                    | ActionDate, Location   |
| 222             | إعادة الإرسال لاحقاً             | CsReschedule                          | ActionDate, ReasonText   |
| 223             | إرجاع من خدمة الزبائن            | CsReturn                              | ActionDate, ReasonText   |
| 240             | إلغاء شحنة                       | Cancel                                | ActionDate   |

AdditionalInformationType

```
{
  Date = 1,
  Location = 2,
  UnableToPickupReasonCode = 3,
```

```

    Image = 4,
    FacilityName = 5,
    POD = 6,
    ReturnReasonCode = 7,
    ReturnReasonText = 8,
    DeliveryFees = 9,
}

```

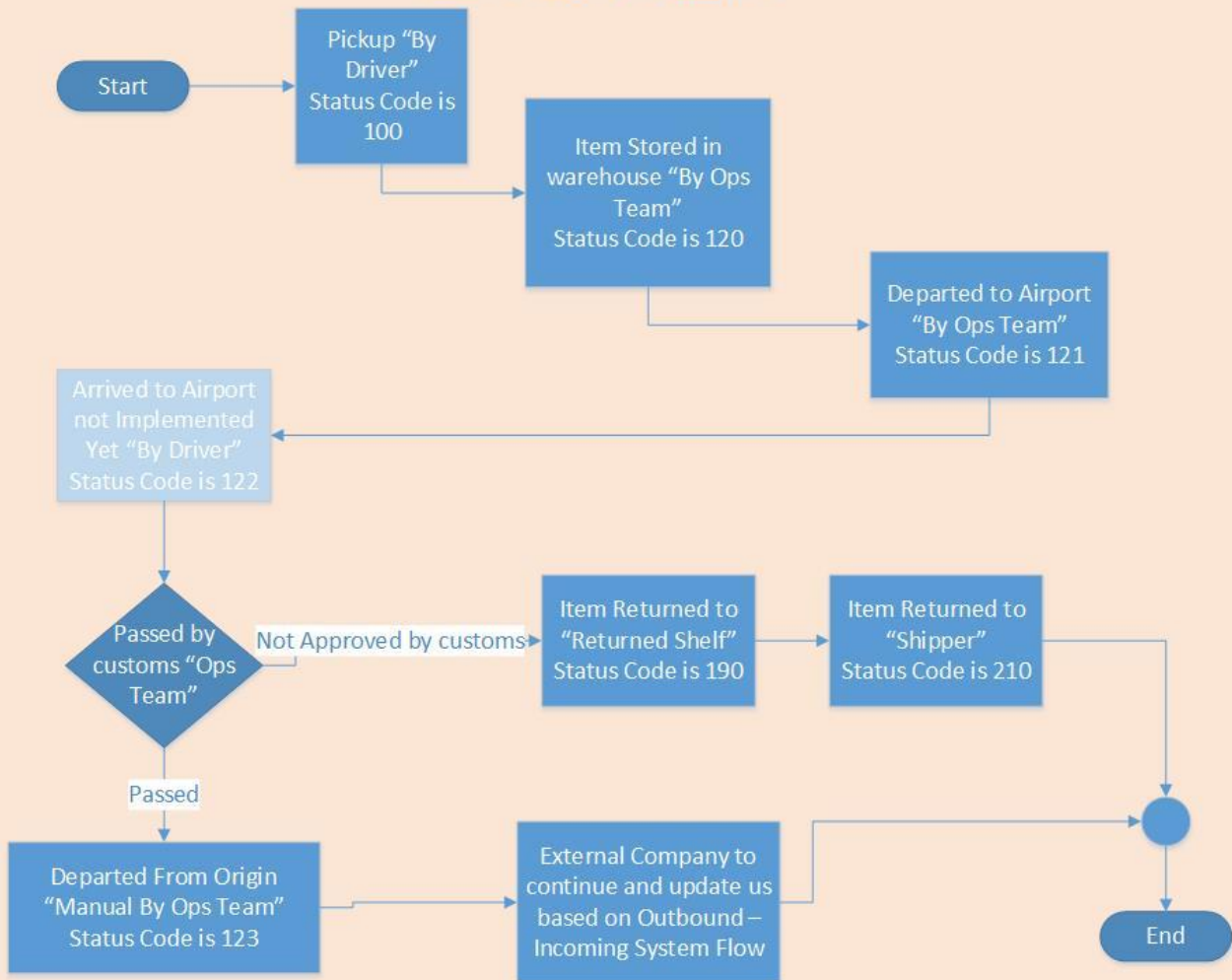
#### Example on Customer Delivery

```

[
  {
    "referenceNumber": "",
    "awb": "21020012000013",
    "actionType": 170,
    "additionalInformation": [
      {
        "type": 1,
        "value": "2021-02-07 18:50:22.2365141"
      },
      {
        "type": 2,
        "value": "32.0243054,35.8561659"
      },
      {
        "type": 6,
        "value":
"data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAABKoAAAEICAIAAABLXJ3uAA.....SUVORK5C
YII="
      },
    ]
  }
]

```

Outbound – Outgoing Integration Flow



Outbound – Incoming Integration Flow

