

WasselExpress Restful Api Integration



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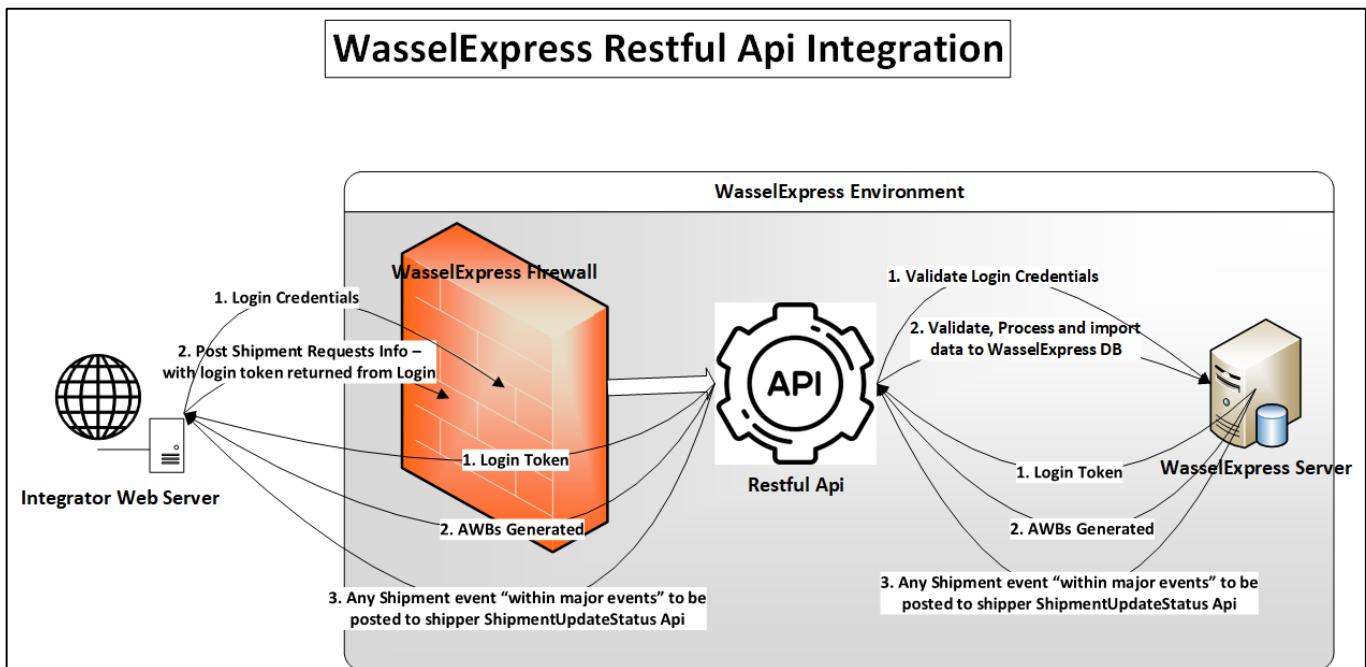
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Definition

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>

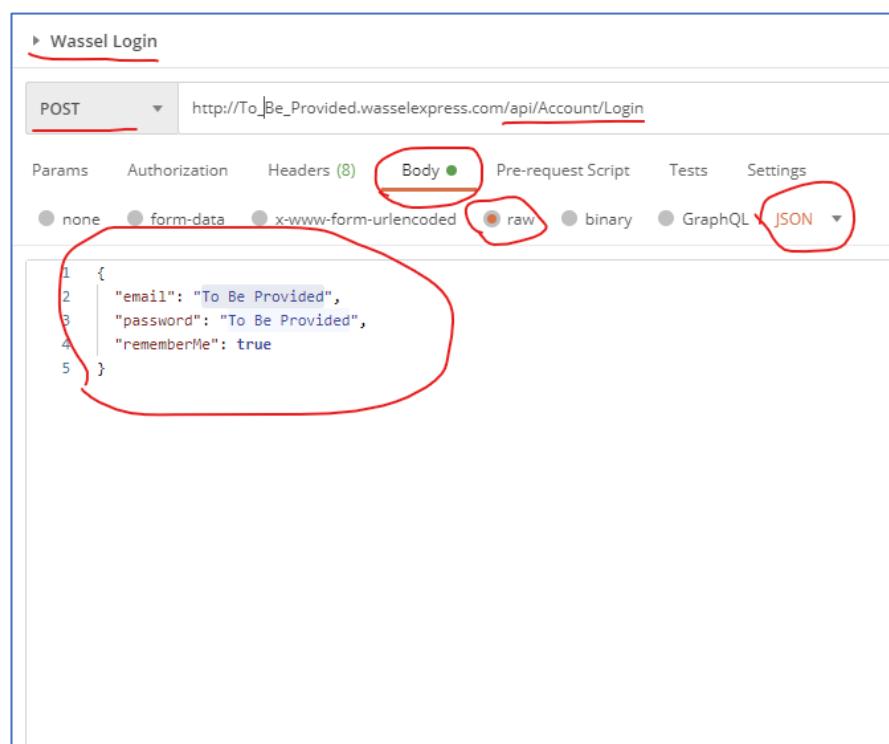
with the below Request schema:

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

Response is a token string like below

200 Response body

```
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0iJhNDgxZDVmMC0yZTc2LTQzNjItODY4Mi0wYjk0N2E10DEwYTgiLCJ1bmlxdmVfbmFtZSI6InIhemFuc2FiZXiiLCJ1bWFpbCI6InIhemFuQGx1U3WzXJBZG1pbisImNbXBhn1uY11joiiwiY29tcGFueWlkIjoiiwiZHZJpdmVydH1wZSI6IiisImhhc3JY21wahVudHntYm5hZ2vtZW50IjoIRmfsc2UiLCJpc3N1bgZKZlbpdmVyeS16IkZhdHN1iwiiaSISInRpcmVjdGRyb3BvZmYi0iJUcnVIIiwicH1ldmVudH1idHvbdnpdGhub2NzYmN0ak9uIjoivH11ZTSiImFyZMfyZXF1axJ1ZC16IkZhbHN1iwiZGVsaXZlcn1kYXR1ZG1zYWjsZWrmbs3Jjb21wYm55IjioiRmJpdmVyaWQi0iilCJuYmYi0jE2MjlxMzEwMTgsImV4cCI6MTYyOTczNTgxOCviaWF0IjoxNjI5MTMxMDE4fQ.Jq0ye5IcadF6zK5-zQvIGt1iy7ULCU5AnwqeQkiChM8
```



2. 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": "96279xxxxxx",
    "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

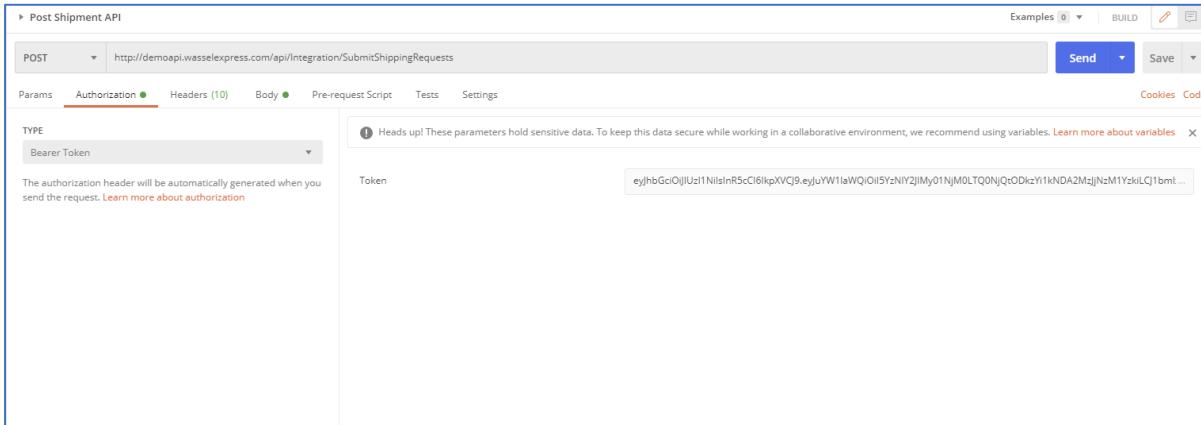
```

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

```

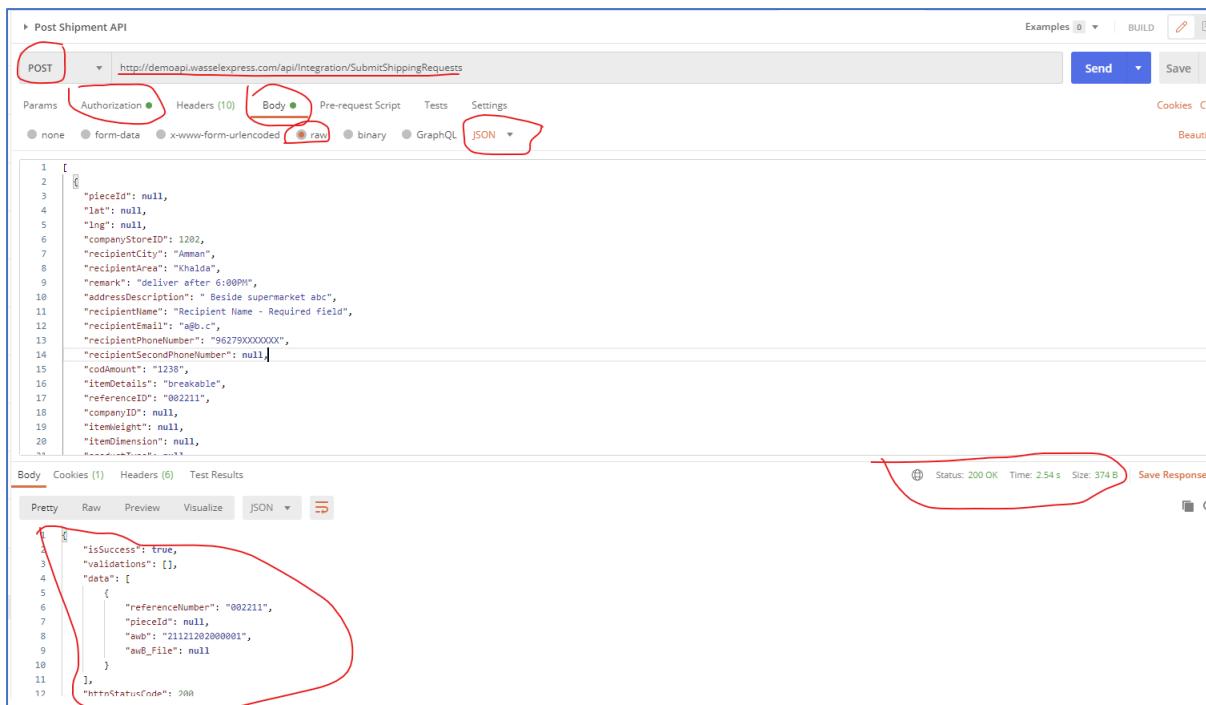
Note: Data will retrieve a pdf file generated from the system includes AWBs for the shipments

Example on postman



The screenshot shows a Postman interface with the following details:

- Method:** POST
- URL:** http://demoapi.wasselexpress.com/api/Integration/SubmitShippingRequests
- Authorization:** Bearer Token
- Headers:** Content-Type: application/json
- Body:** A JSON object representing a shipping request.



The screenshot shows a POST request in Postman. The URL is <http://demoapi.wasselexpress.com/api/integration/SubmitShippingRequests>. The request body is a JSON object with various shipping parameters. The response status is 200 OK.

```

1 [
2   {
3     "pieceId": null,
4     "lat": null,
5     "lng": null,
6     "companyStoreID": 1202,
7     "recipientCity": "Amman",
8     "recipientArea": "Khaldia",
9     "remark": "deliver after 6:00PM",
10    "addressDescription": " Beside supermarket abc",
11    "recipientName": "Recipient Name - Required field",
12    "recipientEmail": "a@.c",
13    "recipientPhoneNumber": "96279XXXXXX",
14    "recipientSecondPhoneNumber": null,
15    "codAmount": "123$",
16    "itemDetails": "breakable",
17    "referenceID": "002211",
18    "companyID": null,
19    "itemWeight": null,
20    "itemDimension": null,
21    "awbNumber": "211120200001"
22  }
23 ]
  
```

3. 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:
1. Common Status checkpoints:
  a. Assign driver to pick up from shipper\Airport: 60
  b. Picked up by a driver: 100
  c. Item Stored in warehouse: 120
  d. Shipment out for Delivery: 130
  e. Shipment delivered to customer: 170
  f. Shipment returned from customer: 180
  g. Shipment returned to Shipper "RTO": 210
2. Special Outbound checkpoints
  a. Departed to Airport: 121
  b. Item Returned to Returned Shelf: 190
  c. Departed from Origin - Outgoing: 123
  d. Departed from Origin - Incoming: 51
  e. Arrival to gateway - Incoming: 56
  f. Under clearance Process - Incoming: 57
  g. Custom Released - Incoming: 58
  
```

4. 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 - وارد	Arrival To Gatway - Incoming	ActionDate
57	تحت عملية التخلص - وارد	Under Clearance Process - Incoming	ActionDate
58	انتهى من الجمارك - وارد	CustomReleased - 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 - Going	ActionDate
122	وضع في المطار - صادر	Dropped In Airport - Going	ActionDate, Location
123	غادر من المنشأ - صادر	Departed From Origin - Going	ActionDate
130	الخروج للتسلیم	Checkout for Delivery	ActionDate
170	تم التسلیم للعميل	Delivered To Customer	ActionDate, Location, POD
180	تم الارجاع من العميل	Void From Customer	ActionDate, Location, ReasonCode, ReasonText "incase Reason Code 90", DeliveryFees "incase Reason Code 100"
190	رف الراجع	Returned Shelf	ActionDate, Facility Name
200	تنظر الارجاع للشاحن	To Be Returned To Shipper	ActionDate, Facility Name
210	راجعاً 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,iVBORw0KGgoAAAANSUhEUgAABKoAAAElCAIAAAABLXJ3uAA.....SUWORK5C
YII="
    }
  ]
}
  
```

