

# Delhivery B2B API Integration

## Technical Document

### Overview

B2B (Business to Business), is popularly also known as LTL (Less than truckload). B2B transportation involves pickup of shipments from the client warehouse and delivering them to the consignee. Multiple legs are involved in this process like Firstmile pickup, Mid Mile connectivity & Last mile delivery which is entirely managed by Delhivery.

The objective of this document is to give a brief walk-through of the different B2B entities, available integration capabilities and proposed Integration flow/touchpoints between the Client and DLV systems, as part of enabling B2B/LTL Operations via Delhivery.

### Onboarding

Clients can reach out to us through our website or can be directly contacted by the Business Development Team. Once all the formalities are done, the client account gets created in our Salesforce system and eventually in our transportation systems as well. Once the client account is onboarded, the respective teams will share the account credentials.

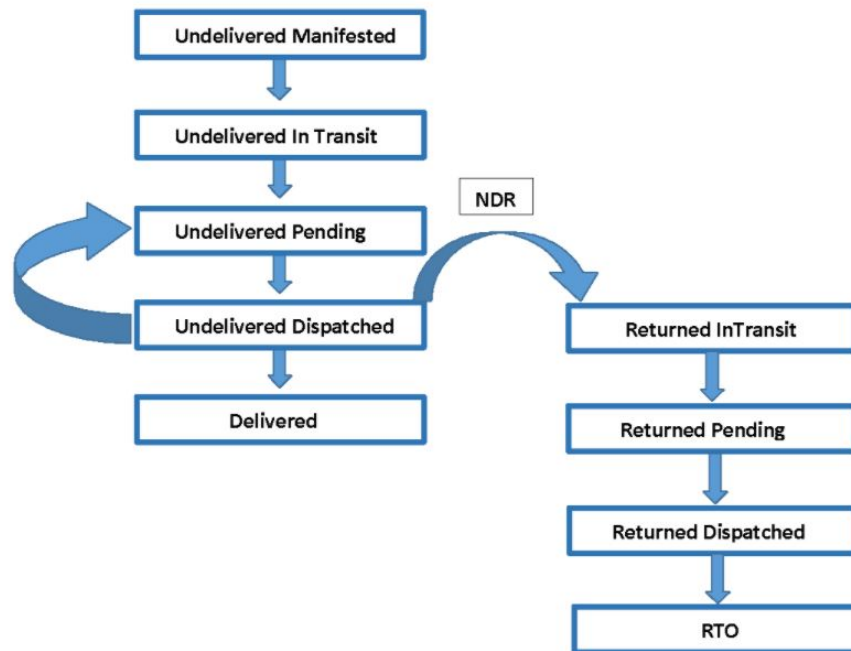
### Testing and Production Accounts

Once a client is onboarded with us, they can use our LTL services where they can create the orders in our system, print labels, track orders and get all necessary details related to their shipments. For a manual process, clients can use our B2B CL Panel where they can login by using the username and password and start using the services.

For API integration, the Client will require the username and password to test all the API's. Also clients can request their assigned POC-Business development person to arrange the test credentials. Once the testing is done, Client can ask for production credentials.

### LR Lifecycle

Once a shipment is created in the Delhivery system, then it follows a package cycle to reach its final destination. The diagram below shows the series of events.



Every shipment tracking can be tracked by using the data fields Status & Status Type  
 Status can have below values :

Manifested  
 In Transit  
 Pending  
 Dispatched  
 Delivered  
 RTO

Status Type can have below values:

UD → This means Undelivered  
 DL → This means Delivered  
 RT → This means Returned

## Modes of Integration

Delhivery has an advanced integration layer that supports integrating with almost all types of major communication protocols available.

We have off the shelf, ready to use Rest APIs and Webhooks (JSON).

We also support communication over FTP - XMLs, CSV files and PDF (for documents).

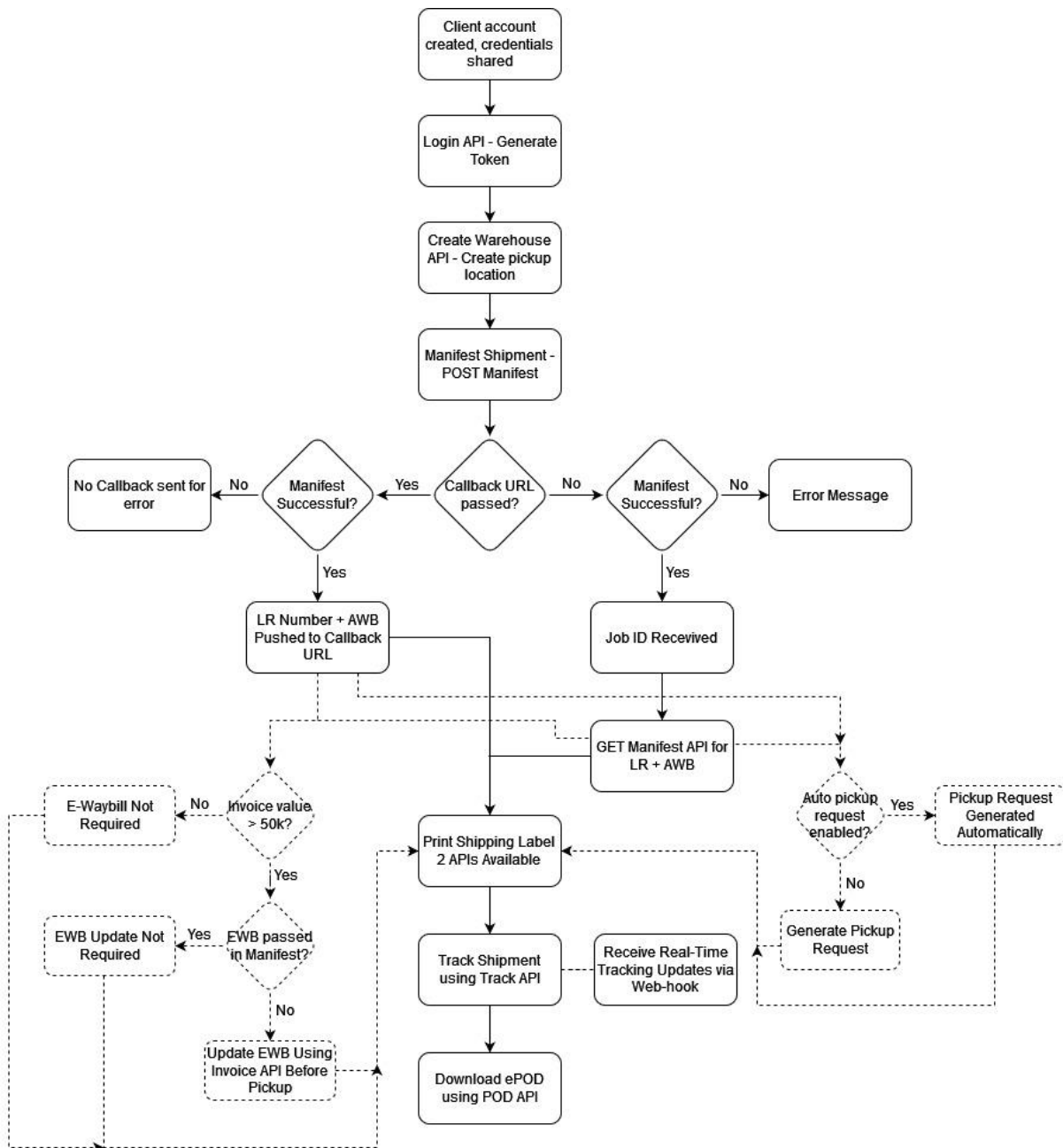
Delhivery also has the capability to re-try API notifications/webhooks in case of network failures or client system unavailability, etc.

## B2B APIs for Integration

The objective of integration is to eliminate the manual intervention where clients have to fill each order details manually and track the shipments through MIS or B2B CL Panel. Integration will help the client systems to communicate with the Delhivery systems directly

and can provide the real time visibility of scans, do manifestation & fetch POD's automatically.

The chronology to be followed for integration and the subsequent testing is given as follows.



## Login API

1. Delhivery B2B APIs authenticate the client systems using a JWT token that is generated using the Login API.
2. The validity of every token generated is 24 hours and has to be used in the header of each API called subsequently.
3. The login credentials remain the same for accessing the APIs as well as the B2B CL Panel

4. There are certain restrictions of users using this set of credentials, a maximum of five users can login to our system (API + CL Panel); as soon as a sixth user logs in, the first user will get logged out.
5. In the CL panel, there is a feature to map additional child users in the CL Panel and up to 10 child users can be added and using each set of child user credentials, a maximum of five users can login. This translates to 50 users being logged in simultaneously.
6. Similarly in case of Login API, there is a rate limit of 100 requests every 5 minutes, if the limit is breached, the calling IP is blocked for 10 minutes
7. If a user tries to login with incorrect credentials in the CL Panel, the user ID is locked for the next 10 minutes
8. It is recommended that you do not make a call to this API for every booking request, it will lead to unforeseen errors

## Create Warehouse API

1. The client pickup locations or warehouses from where the shipments would be physically picked up, have to be defined before-hand in Delhivery systems.
2. There are three possible ways of doing this - Create Warehouse API, Pickup location creation via CL Panel, Sharing data over emails with Firstmile Support Team.
3. The warehouse name is passed in the Manifest API and is case and space sensitive; any mismatch in the pickup location name will result in manifest failure.
4. The return address can also be configured for each warehouse - it can be the address of the warehouse itself or some other address.

## Edit Warehouse API

1. Clients can edit the details of an already created pickup location using this API

## Create Manifest (POST Manifest API)

1. Once the warehouses are created, shipments can be manifested in Delhivery systems that will be picked from the respective warehouses.
2. The create manifest API is asynchronous and will return a Job ID on successful manifestation which needs to be queried in the GET Manifest API to get the LR and AWBs assigned to the shipment.
3. The LR (Lorry Receipt) number is the tracking ID for the entire shipment and each box in the shipment will have its own unique AWB( Airway Bill) number associated with it.
4. The clients have the option to pass their callback URL in this API and the LR number and AWB will be pushed to the same in case of successful manifestation only.
5. If the clients have the pre-defined LR and/or AWB from Delhivery for their account, they can choose to pass the same in this API. If not, these may be left blank and the API will generate the same in real-time.
6. This API also accepts return address in case the shipment needs to be returned to an address different from what is configured for the respective warehouse

## GET Manifest API

1. The response of the create manifest API is a job ID which needs to be passed in this API to obtain the LR and AWB numbers associated with the shipment.
2. Please note that in case of B2B shipments, we generate an additional document AWB which is used to track the documents travelling with the shipment. For a shipment with n boxes, the total number of AWBs generated will be n+1.

## Invoice API

1. For shipments worth more than INR 50,000, the Government of India requires that an e-waybill be generated for the movement of the same.
2. Delhivery systems allow manifest of shipments worth more than INR 50,000 without any e-waybill.
3. The e-waybill needs to be updated in Delhivery systems using the Invoice API or the CL Panel, before the pickup happens physically from the respective warehouse.
4. In case the shipment invoice value is more than INR 50,000 and the e-waybill is not updated, the shipment will not be picked up from the client warehouse.

## Cancel Shipment API

1. Clients can choose to cancel the shipment altogether so that it does not even get picked up from the client warehouse location.
2. This API takes as input any one of the AWBs from the shipment and not the LR number.
3. To cancel the complete shipment, the clients just need to cancel any one of the AWBs in the shipment and the entire lot will be cancelled.
4. The shipments can be cancelled in the following statuses only - Manifested, In Transit, Pending, Open, Scheduled
5. For Prepaid/COD shipments, the status of the package changes to "Returned". For shipments that are in Pick Up, the status of the package changes to "Cancelled".

## Create Pickup Request API

1. Once a shipment is manifested in Delhivery systems, that alone does not guarantee that the shipment will be picked up.
2. The clients need to create a pickup request for the respective warehouse for Delhivery FEs to come and pick up the shipments.
3. Delhivery systems have the ability to configure client accounts such that the pickup request can be generated automatically as soon as a shipment is manifested. This is enabled for clients for which there will be regular pickups from their warehouses and the manifest is done only after the shipments are ready for pickup.
4. In cases where the shipments are not ready for pickup at the time of manifestation, the client can choose to generate the pickup requests manually via API or through the CL Panel.

## Shipping Label APIs

1. Clients need to generate and paste shipping labels on the shipment boxes so that they can be scanned by the FEs and picked up from the client warehouses.
2. Clients can choose to generate their own shipping labels as well. Such labels should have Delhivery LR and AWB number barcodes printed clearly in a 128-bit format. Such labels need to be verified by the respective Delhivery team before integration goes live.
3. The clients can also download the shipping labels from the CL Panel if they wish to not integrate with these APIs.
4. There are two APIs available for the clients to generate and print the shipping labels - Labels API and Label PDF API.

### Labels API

1. This API takes as input the shipping label size and the LR number.
2. The output of this API is individual links for each label for each box in the shipment.
3. The links have a Base64 stream that needs to be converted to a PNG format and printed by the client.

### Label PDF API

1. This API takes as input the LR number and the label size, along with the client's callback URL data.
2. The client's callback URL should be in the format as given below:  
`^https?:\W[a-zA-Z0-9\-\.\+][a-zA-Z0-9\-\.\+][a-zA-Z0-9\-\.\+]*$`
3. This API will push a link to the callback URL defined in the request payload.
4. The clients can download a PDF format label from the link pushed to their callback URL.

## Track API

1. Clients can track the manifested shipments using the Track API.
2. The track API takes as input the LR number and the output is the current status of the shipment.
3. The B2B Track API will return only the latest status of the entire shipment; there will not be any historical data of the shipment journey in the response.
4. There is a limit on this API which is 500 requests every 5 minutes; if the limit is exceeded, the client IP is blocked for the next 10 minutes.
5. Following are the statuses that will be received in the response of this API
  - MANIFESTED - Shipment just created in Delhivery system
  - PICKED\_UP - Shipment has been picked from client location
  - LEFT\_ORIGIN - Left origin city for the destination
  - REACH\_DESTINATION - Reached the destination city for delivery
  - UNDEL\_REATTEMPT - Attempted for delivery
  - PART\_DEL - Partially Delivered
  - OFD - Out for Dispatch
  - DELIVERED - Delivered to consignee

## Webhook for Shipment Status Push

1. Delhivery has the capability to push the status of the shipments in real-time to a webhook URL owned by the client.
2. The shipment statuses can be pushed on an LR, Master AWB or Child AWB Levels depending on how the client wishes to track the shipments.
3. We can also map multiple Delhivery NSL codes with one of the client tracking codes as per the client requirements.
4. There is no limit on the number of statuses that will be pushed from Delhivery systems.
5. Delhivery Tech team will test the status push and then release the same to Production post successful testing.
6. We have the capability to send additional data in scan push or map a custom payload also as per client system requirements.

## POD API

1. This API can be used to download the electronic Proof of Delivery (ePOD) once the shipment is successfully delivered.
2. This API takes as input the LR number of the shipment and provides a link to download the ePOD.

## B2B API Payloads and Definitions

### URL Definitions

Staging Base URLs

<https://btob-api-dev.delhivery.com/>

<https://staging-express.delhivery.com/>

Production Base URLs

<https://btob.api.delhivery.com/>

<https://track.delhivery.com/>

### Serviceable Pincodes for Testing

There are only a limited number of pincodes serviceable/active in the staging environment, please use any one of these pincodes only when testing the APIs - 110044, 110020, 400059, 200013, 201301, 800011, 110011, 122001, 122003, 413133, 600042, 110058, 400050, 400053

### Login API

Rate Limit - 100 requests per 5 minutes

```
curl --location --request POST 'https://btob-api-dev.delhivery.com/ums/login/' \
```

```
curl --location --request POST
'https://staging-express.delhivery.com/api/backend/clientwarehouse/create/' \
--header 'Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6IiNIWVBMSVRFQjJCLiwiGhv
bmVfbnVtYmVyljoiOTg3MzM4OTk5MilsImNsaVVudF91dWlkljoiY21zOjpbGllbnQ6OjdiYjg2
ZDE5LTczZDI0MTFIYS04M2UzLTA2ZDFiZjEzZjZjdjMilsImF1ZCI6Ii5kZWxoaXZlcnkY29tliwiY
2xpZW50X25hbWUiOiJTSFIQTETIURSBGMkllLCJpYXQiOiJE2NDY2NDg5MDUsInVzZXJfdHI
wZSI6IklmNmliaWRsZSI6MTY0NzI1MzcwNSwiY2xpZW50X2VtYWlsljoiZmduYW5jZUBzaHl
wbGl0ZS5jb20iLCJleHAiOiJE2NDY4MjUzMDUsInRva2VuX2IkljoiYTgxOGUwM2YtZDRkMy0
0YjZkZlThhMDctMjU0MjYxNTYyNDc5liwiaXNfY2xpZW50X2FkbWluljpb0cnVILCJlbWFpYmI6I
mZpbmFuY2VAc2h5cGxpZGUuY29tliwidGVuYW50IjoiRGVsaGl2ZXJ5J5liwic3ViljoidW1zOjpb1
c2VyOj03YmI4NmQxOC03M2QyLTEXZWEtODNIMy0wNmQxYmYxM2Y3YzlfQ.FIumbxiT3F
EpKCDuC4TvmulTVjo7WtZBv79WboJD_IY' \
--header 'Content-Type: application/json' \
--header 'Accept: application/json' \
--data-raw '{
    "phone": "8898990909",
    "city": "New Delhi",
    "name": "ttest",
    "pin": "110017",
    "address": "from test address",
    "country": "India".
}
```



```

    "email": "angeline@gmail.com",
    "registered_name": "SWADESHIRAJSURFACE-B2C",
    "return_address": "from test address",
    "return_pin": "110017",
    "return_city": "from test address",
    "return_state": "",
    "return_country": "India"
  }
}

```

#### SAMPLE SUCCESS RESPONSE (200 OK)

```

{
  "data": {
    "working_hours": null,
    "name": "warehouse name",
    "pincode": 324005,
    "type_of_clientwarehouse": null,
    "phone": "phone no.",
    "client": "Client name",
    "address": "address",
    "active": true,
    "message": "A new client warehouse has been created in HQ(Delhivery).",
    "largest_vehicle_constraint": null
  },
  "success": true,
  "error": ""
}

```

Keys	subkeys	Mandatory	Validation	Validation Description
phone		Yes	Yes	Associated phone number with the warehouse
city		Yes	Yes	City of the pickup location
name		Yes	No	Name of the warehouse with which the warehouse gets created in delhivery system - case + space sensitive
pin		Yes	Yes	Pin code of the pickup location
address		Yes	Yes	Associated pickup location address
country		Yes	No	Country associated
email		No	No	Associated email address
registered_name		Yes	Yes	Client account name in Delhivery
return_address		No	No	Address where shipment need to be returned
return_pin		No	No	Return Pin Code
return_city		No	No	City where shipment need to be returned
return_state		No	No	State of the Return location
return_country		No	No	Country where shipment need to be returned

Rate Limit - 40 requests per minute

## SAMPLE SUCCESS RESPONSE (200 OK)

```
{
  "data": {
    "phone": 3242526423737,
```



```
"phone": "733136233"
},
"return_address": {
  "address": "738 Udhay nagar",
  "zip": "201301",
  "name": "shopper stop",
  "city": "gurgaon",
  "region": "haryana",
  "phone": "8383838383"
},
"d_mode": "Prepaid",
"amount": 0.0,
"rov_insurance": true,
"invoices": [
  {
    "ident": "TEST1",
    "n_value": 10478,
    "ewaybill": ""
  }
],
"weight": 73600.0,
"suborders": [
  {
    "ident": "S2001817561",
    "count": 1,
    "description": "Box1",
    "waybills": [
      "6041410000862"
    ],
    "master": true
  },
  {
    "ident": "S2001817752",
    "count": 1,
    "description": "Box2",
    "waybills": [
      "6041410000873"
    ]
  },
  {
    "ident": "S2001817512",
    "count": 1,
    "description": "Box3",
    "waybills": [
      "6041410000884"
    ]
  },
  {
```

```

    "ident": "S2001817725",
    "count": 1,
    "description": "Box4",
    "waybills": [
        "6041410000895"
    ]
},
{
    "ident": "S2001820910",
    "count": 1,
    "description": "Box5",
    "waybills": [
        "6041410000906"
    ]
}
],
"dimensions": [
    {
        "length": 5.0,
        "width": 5.0,
        "height": 5.0,
        "count": 5
    }
],
"consignee_gst_tin": "",
"seller_gst_tin": "",
"cb": {
    "uri": "https://webxpress.azure-api.net/api/UploadAPI/UpdateOrderDetail",
    "method": "POST",
    "authorization": "Bearer
T2NwLUFwaW0tU3Vic2NyaXB0aW9uLUtleTpkZTM5MTc5Yzk4YzA0ZDNIYmlwYWl2ZTZhN
mNINTg0MQ==",
    "headers": {
        "Ocp-Apim-Subscription-Key": "de39179c98c04d3ebb0ab6e6a6ce5841"
    }
}
}'

```

**SAMPLE SUCCESS RESPONSE:**

```

{
    "job_id": "ecd4780e-d4c6-4a16-9345-4b44f8d3c7ee"
}

```

Keys	subkeys	Mandatory	Validation	Validation Description
ident		No	Yes	Should be a valid LRN number shared by DLV; leave blank for DLV to generate LR dynamically
pickup_location		Yes	Yes	Same pickup location should be registered at DLV

				end; case & space sensitive
dropoff_location	refnum	No	No	
	consignee	Yes	No	
	address	Yes	No	
	city	Yes	No	
	region	Yes	No	
	zip	Yes	Yes	Pin code should be serviceable
	phone	Yes	No	
	email	No	No	
return_address		No	Yes	If the return_address key is passed then the return address is mandatory, it cannot be blank. Return address should be serviceable else the manifest request will fail.
	address	No	No	
	zip	No	No	
	name	No	No	
	city	No	No	
	region	No	No	
	phone	No	No	
d_mode		Yes	Yes	Either Prepaid or COD
amount		Yes	Yes	It should be Zero for Prepaid and >1 for COD
rov_insurance		Yes	Yes	ROV Risk Type: Pass True for Carrier Risk and False for Owner Risk.
invoices				
	ident	Yes	Yes	Pattern: "^[0-9a-zA-Z-/]{1,25}\$" sample: MSF20600004731
	n_value	Yes	Yes	Amount can not be Zero and max value is 999999999.99
	ewaybill	No	No	
weight		Yes	No	It should be in gram. Lower limit is 1 and upper limit is 99,999,999.99
suborders	ident	Yes	Yes	This is the Order ID; max length is 50
	count	Yes	Yes	Count should match with the dimensions of the box
	description	Yes	No	
	waybills	No	No	
	master	No	No	
dimensions				
	length	Yes	Yes	Unit is cm. Minimum is 1 and max is 999.99cm
	width	Yes	Yes	Unit is cm. Minimum is 1 and max is 999.99cm
	height	Yes	Yes	Unit is cm. Minimum is 1 and max is 999.99cm

	count	Yes	Yes	Minimum is 1 and no. of boxes having same combination of length, width and height
consignee_gst_tin		No	No	
seller_gst_tin		No	No	
cb		No	No	
	uri	Yes	No	
	method	Yes	Yes	HTTP protocol supported for callback request and method should be PUT, PUSH and PATCH
	authorization	No	No	
	headers	No	No	

```

    }
  ],
  "doc_waybill": "845210013020"
}
}
}

```

# Invoice API

Rate Limit - None

```
curl --location --request PUT 'https://btob-api-dev.delhivery.com/trms/invoice/200006336' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6IkFESURBU1NVUkZBQ0UtQjJCliwiY2xpZW50X3V1aWQiOiJjbXM6OmNsaVVudDo6MmNmNjZjk2ZjctYzM4YS0xMWVhLWFkYTctMGVjY2JjZWVyaWRklwiYXVkljoir3ZES3pvZDZhT0lNM0xeWE5QmpmQml4YnZGa1IUWHkiLCJjbGlbnRfbmFtZSI6IkFESURBU1NVUkZBQ0UtQjJCliwiaWF0IjoxNTk0NjQxODA5LCJ1c2VyX3R5cGUiOiJDTCIsImkbGUioE1OTUyNDY2MDksImNsaVVudF9lbWFpbmFtcml0LnNhZ2FyQGFKaWRhcy1ncm91cC5jb20iLCJleHAiOjE1OTQ2ODUwMDksImRva2VuX2IkljoiOTIlZmJIMmtMTMRIOS00NTdiLTg3MGUtNmQ1NDgyZjVmZTYxliwiaXNfY2xpZW50X2FkbWlucj0cnVILCJlbWFpbmFtcml0LnNhZ2FyQGFKaWRhcy1ncm91cC5jb20iLCJzdWiiOiJ1bXM6OnVzZXI6OjJjY2Y5NmY2LWMzOGEtMTFIYS1hZGE3LTBIY2NiY2VhMjg0ZCJ9.Sk0kZF23LcD7kU6iJmfkQx2amO8-z168_DrKY8mbmr8' \
--data-raw '{
    "data": [
        {
            "dcn": "30449",
            "rs": 10000,
            "ewbn": "string"
        }
    ]
}'
```

SAMPLE SUCCESS RESPONSE:

```
{
  "job_id": "string"
}
```

Keys	subkeys	Mandatory	Validation	Validation Description
dcn		Yes	No	Invoice number
rs		Yes	Yes	Invoice amount, minimum needs to be 1
ewbn		No	No	Shipment E-waybill number



```
curl --location --request POST 'https://staging-express.delhivery.com/api/p/edit' \
--header 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybWtZSI6ImlwVWBSVRFQjJClwiicGhvbmVfbnVtYmVyljoiotOTg3MzM4OTk5MilsImNsaVVudF91dWlkljoiy21zOjpjbGlbnQ6OjdYjg2ZDE5LTczZDltMTFIYS04M2UzLTA2ZDFiZjEzZjdjMilslmF1ZCI6Ii5kZWxoaXZlcnuY29tliwiY2xpZW50X25hbWUiOiJTSFIQTETURSBCMKliLCJpYXQiOiJE2NDY2NDg5MDUsInVzZXJfdHlwZSI6IkkNMIiwiaWRsZSI6MTY0NzI1MzcwNSwiY2xpZW50X2VtYWlsIjoizmluYW5jZUBzaHIwbGI0ZS5jb20iLCJleHAiOiJE2NDY4MjUzMDUsInRva2VuX2IkljoiyTgxOGUwM2YtZDRkMy00YjkzLTlhMDctMjU0MjYxNTYyNDc5liwiaXNfY2xpZW50X2FkbWlucj0cnVILCJlbWFpbCI6IjZpbmFuY2VAc2h5cGxpZGUuY29tliwidGVuYW50IjoiriRGVsagI2ZXJ5Jiwiic3ViljoidW1zOjp1c2VyOjo3YmI4NmQxOC03M2QyLTExZWEtODNIMy0wNmQxYmYxM2Y3YzlfQFlumbxiT3FEpkCDuC4TvmtTVJo7WtZBv79WboJD_IY' \
--header 'Content-Type: application/json' \
--header 'Cookie: sessionid=dtf6mij8841yb57hli8f8tl0qei245mf' \
--data-raw '{
    "waybill": "waybill no.",
    "cancellation": "true"
}
```

### SAMPLE SUCCESS RESPONSE (200 OK)

```
{
  "status": true,
  "waybill": "72510221966",
  "remark": "Shipment has been cancelled",
  "order_id": "6543536547676"
}
```

Keys	subkeys	Mandatory	Validation	Validation Description
waybill		Yes	No	Waybill no. for which cancellation is required
cancellation		Yes	No	Pass "cancellation": "true" to cancel shipment

## Create Pickup Request API

Rate Limit - 2000 request per 5 minutes

```
curl --location --request POST 'https://staging-express.delhivery.com/fm/request/new/' \
--header 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6ImlNWVBMSVRFQjJCliwicGhvbmVfbnVtYmVyljoiotOTg3MzM4OTk5MlslbnNsaWVuZF91dWkljoiy21zojpjbGlbnQ6OjdiYjg2ZDE5LTczZDltMTFIYS04M2UzLTA2ZDFiZjEzZjdjMlslbnF1ZC16IiwiaWF0IjoiY29tliwY2xpZW50X25hbWUiOiJTSFIQTETURSBCKkliLCJpYXQiOiJlcyNDY2NDg5MDUsbnVzZXJfdHlwZSI6ImNmIiwiaWRsZSI6MTY0Nz11MzcwNSwiY2xpZW50X2VtYWlsIjoizmluYW5jZUBzaHIwbGI0ZS5jb20iLCJleHAiOiJlcyNDY4MjUzMDUsbnRva2VuX2lkIjoiyTgxOGUwM2YtZDRkMy00YjZlThhMDctMjU0MjYxNTYyNDc5IiwiaWF0IjoiY2xpZW50X2FkbWludj0cnVILCJlbWFWpbC16I
```

```

mZpbmFuY2VAc2h5cGxpdGUuY29tliwidGVuYW50ljoIRGVsaGl2ZXJ5liwic3ViljoidW1zOjp1
c2VyOjo3YmI4NmQxOC03M2QyLTExZWEtODNIMy0wNmQxYmYxM2Y3YzlfQ.FlumbxiT3F
EpKCduC4TvmulTVjo7WtZBv79WboJD_IY' \
--header 'Content-Type: application/json' \
--data-raw '{
  "pickup_time": "07:00:00",
  "pickup_date": "2021-09-04",
  "pickup_location": "Ayush99tshirts",
  "expected_package_count": 1
}'

```

Sample Response – Success (201 Created)

```

{
  "pickup_id": 4323300,
  "client_name": "100bestbuy",
  "pickup_location_name": "new new",
  "incoming_center_name": "Kolkata_Sonarpur_DC",
  "pickup_time": "18:30:00",
  "pickup_date": "2018-08-29",
  "expected_package_count": 10
}

```

Keys	subkeys	Mandatory	Validation	Validation Description
pickup_time		Yes	Yes	Time for the pickup(hh:mm:ss)
pickup_date		Yes	Yes	Date for the pickup(YYYY-MM-DD)
pickup_location		Yes	Yes	Registered client warehouse/pick up location in the system
expected_package_count		Yes	No	Expected count for the packages to be picked

## Shipping Label APIs

### Labels API

Rate Limit - 100 requests per 5 minutes

```

curl --location --request GET
'https://btob.api.delhivery.com/v3/get-label-urls/a4/231456286?document=true' \
--header 'Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6IklORFVTVFJZQjJClIiwicGhvbmVfbnVtYmVyljoIjKzKxODgwMjE4ODk2MSIsImNsaWVudF91dWkljoIY21zOjpbGllbnQ6OjczMTIyNGYzLTg5YWEtMTFIYy05NGFmLTA2MjRkOTNiMzE3OCIsImF1ZCI6Ii5kZWxoaXZlcnuY29tliwiY2xpZW50X25hbWUiOiJJTkRVU1RSWSBSCMkLiLCJpYXQiOiE2NjAxMTg1OTcslNlVzZXJfdHlwZSI6IklNMliwiaWRsZSI6MTY2MDcyMzM5NywiY2xpZW50X2VtYWlsIjoicmFqZVV2LnNhaW5pQGluZHVzdHJ5YnV5aW5nLmNvbSIsImV4cCI6MTY2MDI5NDk5NywidG9rZW5faWQiOiI5MjJlNmM1MC01YjhlLTQyYTU0OTk3Ny1hMGY0ZjA0ZWRIWU0iLCJpc19jbGllb

```



The PDF URL is an AWS protected URL which expires automatically after 4 hours, the API will have to be called again to generate a fresh URL post expiry.

```
pdf_url:  
'https://lr-label-generation-pdf-prod.s3.ap-southeast-1.amazonaws.com/e18d6402-fcc2-4a8e  
-a4b9-2a6f3fc9e8b2.pdf?AWSAccessKeyId=ASIASYPQWAPQUE4FM76C&Expires=169416  
5448&Signature=o0xiLhO2hAd2J92ukBXS0seMn0Q%3D&X-Amzn-Trace-Id=Root%3D1-64  
f846c6-7c9a9f894148ca3a26cdd314%3BPARENT%3D6102e52e56bd74f7%3BSampled%3D0  
%3BLineage%3Dddb1e072%3A0%7Cf987ce32%3A0%7Cc813b58d%3A0&x-amz-security-t  
oken=IQoJb3JpZ2luX2VjEjR%2F%2F%2F%2F%2F%2F%2F%2F%2F%2F%2FwEaDmFwLXNvd  
XRozWFzdC0xlkgwRglhAKsHlaqOUwrJUqafaqEFtkUBVk7Y5hHC5BTjhVr8kfe4AiEA%2Fy  
TkSi5a1VAHed95ZpATA76StCHTJbWtgOiic%2BhzdcEqpAMlchAAGgwxOTAwMjAxOTEyMDU  
DEiDOOnSti%2FJApg9XDCvOyqBAz7zf5x3WxoFoTGZsScW65oirjyT9aGyhodJQGoXnlAhf  
Pd6nnPAOljODEy6n3yjQB1GNc4PkvmMWjnKzWi1%2BV%2FomusluRwj0Q71vWQg7xgA7  
MQwHtfkXBKrqbBKubkMQB4273XvNuMc2N28XylZtszc4n0VKkc%2BBP0aloBT%2FFvOAe  
U6EOcP4J5X%2B87EvUNowrcOW%2Bn5qzTii4k5KI6mcahjclZLHx7wa0FzQCLPppWSXW  
JYcfllfSIUtYRIstAtQ30rjFavIU7cHWE04U%2FO3dgllifObFf%2BH3ezH0FvOT5WNV5deHwX  
V33nEH9VohA%2BDMNelcmGZA6wPq1wNOBHs7M4UFz2%2BVC301OVYu%2Br2%2Bbn  
XGDqrudHWEm2VgWEpjUXV8P4qGGkeq12Z%2FsXOQluqt7gz5CWtgmRLNeJbKqepLL  
WNNCKIOEWsjS%2B2PZ6tROX4NY0dqdrM%2BFP6XHt2dc2uxf1E0U5HmbKBK9GI%2BUb  
rbFt80TExaJe%2FQahgZ9Vd%2BPwx8jAwu4rhpwY6NAHYCZAyft4I8XWR50%2BYD6MLVH  
koWCGo525bJlnsbWha7y2pN22xNTn4xukHUUCx%2Fdfh0oyPriZOOUKuNqr29OyyJFFzXd  
Ui%2BCguQQDgScS06VB4hp6Z7uS%2Fkl%2BhuNwgmfy7UiGiaTX3%2FLp6Nps06N5%  
2BMPEaiztJNMIZ%2BZ54bg0JdVNKNww5x55odNc%2BPolzufl23o40ZCBhNVlqmY%3D'  
}
```

Keys	subkeys	Mandatory	Validation	Validation Description
lrn		Yes	No	Pass LR number of the shipment
size		Yes	No	Size of the labels required - sm, md, a4
callback		Yes	No	Additional payload data for callback after job completion
	uri	Yes	No	URL for callback request
	method	Yes	No	HTTP protocol supported for callback request
	authorization	No	No	Authorization header if any to authorise the callback request
	headers	No	No	Headers if any required to be added in callback request

	key	No	No	Headers if any required to be added in callback request
--	-----	----	----	---------------------------------------------------------

## Track API

Rate Limit - 500 requests per 5 minutes

```
curl --location --request GET 'https://btob-api-dev.delhivery.com/v3/track/220014992' \
--header 'Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6IklORFVTVFJZQjJCLUlyQilslmNsaWVudF91dWlkIjoieY21zOjpbGllbnQ6OmNjMzY1OTdkLTE0ODgtMTFIZC1hN2RkLTAYNGQzNGJjZTZiNSIsImF1ZCI6Ikd2REt6b2Q2YU9JTtNMY3lhOUJqZkZjOGJ2RmtZVFh5IiwiaY2xpZW50X25hbWUiOiJJTkRVU1RSWUlyQi1CMkliLCJpYXQiOiE2NjAwMzY3MjAsInVzZXJfdHlwZSI6IklmliwiaWRsZSI6MTY2MDY0MTUyMCwiY2xpZW50X2VtYWIsIjoiaW5kdUBnbWFpbC5jb20iLCJleHAiOiE2NjAwNzk5MjAsInRva2VuX2lkIjoieMTBhNjI5YjUtZjg5Yi00NTQwLWE5MDMtODNiY2RjNDBIMmJmliwiaXNfY2xpZW50X2FkbWluljp0cnVILCJlbWFpbCI6ImluZHVhZ21haWwuY29tliwidGVuYW50IjoieRGVsaGl2ZXJ5Iiwic3ViljoidW1zOjpb1c2VyOjpbYzY2M2NTk3Yy0xNDg4LTExZWQTYTdkZC0wMjRkMzRiY2U2YjUifQ.ney1jhFB5SRH_f-aifAR3PLVBOykqxVpu3NELnz0DEo'
```

SAMPLE SUCCESS RESPONSE:

```
{
  "request_id":
    "3ef9d047-b1e4-4929-a08f-62588b69f891",eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6IklORFVTVFJZQjJCLUlyQilslmNsaWVudF91dWlkIjoieY21zOjpbGllbnQ6OmNjMzY1OTdkLTE0ODgtMTFIZC1hN2RkLTAYNGQzNGJjZTZiNSIsImF1ZCI6Ikd2REt6b2Q2YU9JTtNMY3lhOUJqZkZjOGJ2RmtZVFh5IiwiaY2xpZW50X25hbWUiOiJJTkRVU1RSWUlyQi1CMkliLCJpYXQiOiE2NjAwMzY3MjAsInVzZXJfdHlwZSI6IklmliwiaWRsZSI6MTY2MDY0MTUyMCwiY2xpZW50X2VtYWIsIjoiaW5kdUBnbWFpbC5jb20iLCJleHAiOiE2NjAwNzk5MjAsInRva2VuX2lkIjoieMTBhNjI5YjUtZjg5Yi00NTQwLWE5MDMtODNiY2RjNDBIMmJmliwiaXNfY2xpZW50X2FkbWluljp0cnVILCJlbWFpbCI6ImluZHVhZ21haWwuY29tliwidGVuYW50IjoieRGVsaGl2ZXJ5Iiwic3ViljoidW1zOjpb1c2VyOjpbYzY2M2NTk3Yy0xNDg4LTExZWQTYTdkZC0wMjRkMzRiY2U2YjUifQ.ney1jhFB5SRH_f-aifAR3PLVBOykqxVpu3NELnz0DEo
  "data": {
    "lrnum": "220014992",
    "status": "MANIFESTED",
    "mcount": 1,
    "wbns": [
      {
        "status": "MANIFESTED",
        "location": "Del_Okhla_PC (DELHI)",
        "wnb": "5989310000055",
        "timestamp": "2022-08-08T18:11:21",
        "count": 1,
        "lrnum": "220014992",
        "manifested_date": "2022-08-08T18:11:21",

```

```

        "scan_remark": "Manifest uploaded"
    }
]
}

```

## Webhook Integration

Webhooks provide a mechanism whereby a server-side application can notify a client-side application when a new event has occurred on the server. Here the new event is the application of a new scan on the client package. Whenever a new scan is applied to the package the client is automatically notified of this scan via an endpoint that is shared by the client to which the scans are pushed. The client is supposed to enable the endpoint where Delhivery will send the scan status on the package. The client should also share any extra details which need to be passed along with the scan data such as authorization header, Content-type, etc. A sample scan will be sent to the mentioned webhook endpoint to test if the data is successfully sent and received by the client. For sending a sample scan the client needs to share a live order AWB. Below is a sample scan which will be pushed to the client. This payload can be changed if required by the client.

### Details required from client before starting the development

1. API endpoint for both staging and production on which scans need to be pushed
2. Clients should have at least 1-2 waybills/tracking IDs in production to test out the scan push functionality
3. CURL request of payload with request and expected response (Recommended: 200 OK and Success)

Please Note: Development, Testing, and Deployment for Webhook needs a minimum of 5-6 working days time post requirements are frozen.

### Payload for B2B Scan Push

```

{
    "pod_link": "string", // Only when POD is uploaded
    "shipment_remark": "string",
    "location": "string",
    "count": "Number",
    "lrnum": "string",
    "mwn": "string",
    "cl_uuid": "string",
    "name": "string",
    "package_type": "Pre-paid",
    "expected_delivery_date": "Number",
    "promised_delivery_date": "Number",
    "timestamp": "Number",
    "status": "string"
}

```

- 'MANIFESTED' - Shipment is manifested in Delhivery systems
- 'PICKED\_UP' - Shipment has been picked up from client location
- 'LEFT\_ORIGIN' - Shipment has left the origin centre location
- 'REACH\_DESTINATION' - Shipment has reached the destination centre location
- 'UNDEL\_REATTEMPT' - Shipment delivery will be re-attempted
- 'PART\_DEL' - Shipment has been delivered partially
- 'DELIVERED' - The complete shipment has been delivered successfully
- 'OFD' - Shipment is out for delivery
- 'RETURNED' - Shipment has been returned and handed over to shipper
- 'NOT\_PICKED' - Shipment is not picked from the client location
- 'LOST' - Shipment has been lost in transit

```
curl --location --request GET
'https://btob-api-dev.delhivery.com/v3/document/220030003?doc_type=LM_POD' \
--header 'Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6IiBhbnRhbG9vbnNCMkIiLCJw
aG9uZV9udW1iZXliOm51bGwslmxhc3RfbmFtZSI6IklkYQilslnVzZXJfdHlwZSI6IiNMIiwiaWF0
IjoxNjc1ODQxNDQ3LCJpc19jbGllbnRfYWRTaW4iOnRydWUsInRlbnFudCI6bnVsbCwiYXVh
ljoir3ZES3pvZDZhT0lNM0xeWE5QmpmQml4YnZGa1lUWHkiLCJmaXJzdF9uYW1lIjojUGF
udGFsb29ucylsInN1Yil6InVtczo6dXNlcjo6Y2JiMWE0YWMTNTA5Ni0xMWU5LTThiNmMtMDIw
MGVjZDE3OTQ0IiwiaY2xpZW50X3V1aWQiOiJjbXM6OmNsaWVudDo6Y2JiMWE0YWQ0tNTA
5Ni0xMWU5LTThiNmMtMDIwMGVjZDE3OTQ0IiwiaWRsZSI6MTY3NjQ0NjI0NywiY2xpZW50
X2VtYWwsljoicm9oYW4ucmFtYW41QGRlbGhpdmVyeS5jb20iLCJleHAiOiJlE2NzU5Mjc4NDcsl
mNsaWVudF9uYW1lIjojUGFudGFsb29ucyBCMkIiLCJ0b2t1bl9pZCI6IjE3OWEyY2Y0LTU4NT
MtNDFIYS05NzkyLWY1YmJhOTg0MjA5NCIsImVtYWwsljoicm9oYW4ucmFtYW41QGRlbGhp
dmVyeS5jb20iLCJhcGlfdmVyc2lvbil6InYyIiwidG9lljoxNjc1ODQxNDQ3fQ.h36QgG-S-VGgqG
oC5q_I5QijlaqJuojaNeQyXZ6_fyA'
```

The response is the S3 link which can be downloaded in the PDF format if pasted in the browser.

```
{
  "data": [
    "https://b2b-package-documents.s3.amazonaws.com/PKG/14944511608703/LM_POD/LM_POD_235495451_2_4_2023-14_6_53_135.pdf?response-content-disposition=attachment%3B&X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=ASIASYPQWAPQV5EBF5CM%2F20230208%2Fap-southeast-1%2Fs3%2Faws4_request&X-Amz-Date=20230208T093146Z&X-Amz-Expires=3600&X-Amz-SignedHeaders=host&X-Amz-Security-Token=IQoJb3JpZ2luX2VjEjEon%2F%2F%2F%2F%2F%2F%2F%2F%2F%2F%2FwEaDmFwLXNvdXRoZWZzZC0xIkYwRAIgZK0CTsn3zxma2qPw4XcPMfal5huNg6TodnJMBmk2maUCIBOPv5iD77J%2FmDRJoxNVJ8tzTAH%2FvvbtuFQeRGorG9%2BgKtsECHIQABoMMTKwMDIwMTkxMjAxlgxlbvuP6ofVK8%2F9U0cquAS5u3h7Cb1vdU6thZthZ2Ptekd6fvnjZu41gPacqvdAsiUzASFifOA1"
  ]
}
```

%2Fm5SZQKTSJ1QFe2yE3QZjhyxuBNqJLozGSQGUrgmNJdRB8O41BxumpblU77Gncuul  
ThAPFE98%2FIDQL3bP9ccYaiqaO5M40WqBCzqdvT%2FVBnXsRVh0BZhh8q5JtLb5hMiw6  
dIX2L8lbiCS7FScVKepAnh5GJ1v%2F09tgqCrGqD0Yx3ICTh4HiNkhMxc%2Fupzf2LHNfC7  
r9TU6qXz5ePFldNLFfbNW7kCijmto06Yagy1S1ciN9EASNfZXeba3PkYVnII9GojgUWeH%2F  
4%2FrqHmEdiEYPO7552oz89ljpIrrO7MrewtNnKUjCZdQxo12Eo3Az%2FEn2YpvchqjkSVns  
kZCmBqQ%2Fwk6qzTZcBsz42WwfC5OouNqv6gSIIMUZO4KQlzpB3BBcPWqP%2FJPD6R  
3pl%2FVE1j1G%2B3UJfJohuSNEw3TFa3sk0xcymdT1TbOF9OTjWxm29maodIQIMpHKFm  
ul7f3laOfZWZSDSXge%2BiJd%2Fif%2Fre%2BRgLNRLu9I2yCxHpfK97dEsbATNeJIDG%2Ff  
p6qd7q0AUE8AslwH%2FpNOvf6Ao7jmJqUpFqsliPNhnYt69pGu%2Fp6hf9pdBbn9OxXhEM  
0Pjs4c14ZDj%2BmlxvwBs63jQk5vhV8mrDqKVwSE6GWvN3DkuMECZmg%2BEqbbu2juAO  
OmaMnhJdfc2%2BjqrFep%2Fiy3A8mHTb7Taq%2FN%2F7Qncf6Kp8005veMJDNjZ8GOqo  
BkTHFj6Ebdq4uP6jaRG3qLFsK3s5%2Bj8Wn7e5ZtegZroZBVZ7PyF14XixGyCMcyM3mosfc  
bRFYrWfRYVRYILa%2FuZPvPJQ7ou1Ec5mAQulmbH%2B%2BBqHcH3DmjCPZIMzMd7MT  
6a7nBa9OzUxWPJjS3WvCxWqMP659b4P4xHOkN8lpE%2F44DZiVZk0DGyeo80y0%2FvYt  
g726LCCCW6%2FP%2BzkhLX4DHpR7saOEA7jHqo%3D&X-Amz-Signature=9276cbbad6  
a8cd7328a944b641bef90bf390a7adf3fd74489524ba9fcf59503d"

],

"request\_id": "025e5de0-db05-4f6c-b229-6c1bd1d3a60b"

}