

# DPD Shipping API Integration Specification

October 2021

Version 3.2 Copyright © DPDgroup 2020

Confidential



# **Version History**

Version	Changes	Date	Author
3.0	Document Creation Initial Draft (Domestic)	Apr '19	AR - Customer Integration
3.1	Updated Test Pack Address	Sep '20	AR - Customer Integration
3.2	Support information update	Oct '21	JM - Customer Integration

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# Disclaimer

This document is subject to change, so please ensure prior to any development you obtain the latest version of the technical specification from the DPDgroup UK IT Customer Integration Team. (See 'Support Contacts' section for further details).

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# **Support Contacts**

If information / assistance is required with regards to integration with ourselves please direct any correspondence via the DPDgroup UK IT Customer Integration Team. Please find contact information below:

Email Address: edisupport@dpdgroup.co.uk
Telephone Number: 0121 275 7336

#### For all Label Test Packs send to:

FAO: Customer Integration Team (IT Dept)
DPDgroup Ltd
2nd Floor, Hub 3
Broadwell Road
Oldbury
B69 4DA

**NOTE:** Please ensure a cover note is included with test packs posted so we are able to identify the sender.

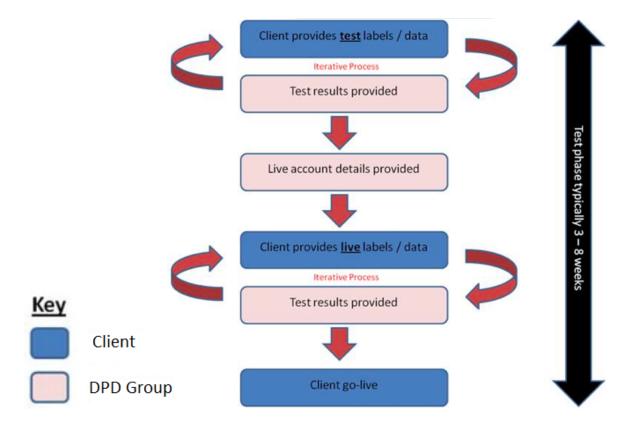
# **Getting Started**

Please contact the Customer Integration Team prior to starting development to ensure you have the latest version of the documents.

**NOTE:** The Customer Integration Team is able to offer onsite support Free of Charge to assist with your Development. See Support Contacts above.

To access the latest development tools, integration specifications etc, these can be obtained from the DPDgroup UK IT Customer Integration Team. (See 'Support Contacts' section for further details).

#### Label and Manifest Data Development Lifecycle



# **Testing Details**

**NOTE:** The Customer Integration Technical Team must be informed when a customer wishes to start development work, due to the possibility of further system development and changes since this document was printed. We aim to provide test pack feedback within 48 hours.

# **Development Test Details**

We require that you utilise your existing web credentials or dedicated API Login whilst in the testing phase, as there is no access to a dedicated test environment. These are the same details that you will have been provided by your account manager to access the DPD UK website. If you require a dedicated login for your API implementation this can be requested via your account manager.



**WARNING:** Please be aware not to use sensitive customer details, this also applies to the Email / SMS notification details. We highly recommend leaving blank or populating with your own details as notification for both SMS / Email will be triggered and will be sent out to specified numbers / addresses.

**NOTE:** When testing your API implementation, Billing of parcels will not take place unless the parcel / label is seen through the DPD Group network.

If you wish to void / delete test shipments this can be carried out via the MyDPD shipment review screen.

For 3rd Party developers working on behalf of a mutual customer, where no username and password have yet been provided, please contact the IT Servicedesk to request a test login that can be utilised whilst in the testing phase.

**NOTE:** The Test login provided must not be used for live shipping once sign off has been obtained.

# **Development Live Details**

A formal sign-off <u>must</u> be obtained from the Customer Automation Technical Team before live shipping is accepted. Once we have successfully signed off your labels and Insert Shipment JSON (where applicable) we will then require one final test pack containing the **LIVE** details (assigned by your support contact) to include both labels and corresponding Insert Shipment JSON Content.

DPD may revoke the authorisation to ship if subsequent problems arise with data integrity or label quality.



**WARNING:** It is recommended that the first live runs be of small volumes, and monitored by both DPD and the client.

### Introduction

This document is to be used by DPDgroup customers and third parties for integrating their software with the DPDgroup Enterprise Service Gateway (ESG) application. The ESG application is a suite of RESTful APIs in which this document concentrates on exposing the Shipping APIs. This document is aimed at the developer for coding the client integrating software and assumes the developer has an understanding of web technologies and terminologies.

All ESG APIs support JSON as both content types and accept types. The destination host supports HTTPS. Certain headers are required by DPDgroup in every request unless stated, these are:

GeoClient - this needs to be populated with "account/" and your account number if you are a customer or with "thirdparty/" and your company name if you are an integrating thirdparty. Examples are shown below for customer and for a thirdparty:

GeoClient: account/830567 GeoClient: thirdparty/ACME

The other header which is required is "GeoSession" which verifies who you are. This is generated after logging in and is passed into every API call thereafter.

The rest of this document is separated into the following sections:

- 1. Login Process this is required in order to code any of the other sections.
- 2. Create Shipment this is broken into all the APIs available to create a shipment.

Each API will include the following:

- 1. A description of what it is to be used for
- 2. The supporting HTTP headers
- 3. An example request
- 4. An example response
- 5. An object overview diagram
- 6. A breakdown of all the objects used in both the request and response

# HTTP error codes supported

Throughout this document some general HTTP response codes apply and are shown below

200	The API has successfully returned but may contain an error object which should be checked programmatically
401	Username or password was incorrect
403	A GeoSession header was not found or is invalid
404	An attempt was made to call an API in which the URL cannot be found
500	The ESG server had an internal error and no response object will be returned
503	The API being called is temporarily out of service

Every API in conjunction with the general errors above has its own errors; please refer to the specific API to see its specific error object codes returned in its error object

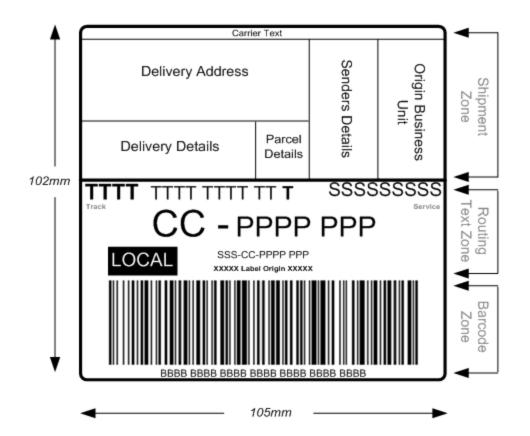
There is also an API Error FAQ available giving more guidance on Error messages and possible causes available from the DPDgroup UK IT Customer Integration Team. (See 'Support Contacts' section for further details).

# **Printing**

Please be aware that we provide the print output code in various formats for you to use, however the process to pass the print job to the relevant printer is the customer's / third parties responsibility. Sample label outputs (Printer strings & HTML) are available from the DPDgroup UK IT Customer Integration Team. (See 'Support Contacts' section for further details).

**NOTE:** Only use of white label stock is permitted.

**NOTE:** When intending to print via Thermal Printer we strongly advise label stationary width to measure at least 105 mm. We will not be able to sign off any labels below 102 mm width. Please contact a member of the technical team if you have any further queries.



# Login Process

# <u>Login API Definition</u>

API Login

URL=POST:/user/?action=login

The Login API is different to all other APIs as it returns a GeoSession. The other APIs require the GeoSession to be passed in as a security validation. Calling this API also sets up a session on the DPD servers. This server session allows all future interactions to be validated without the need to present login credentials. The API requires the username and password to be encrypted using base64 encryption and then passed as an Authorization header in the HTTP request,

**NOTE:** It is recommended that you retrieve a Geosession at the start of each day to ensure that this does not expire mid production flow. This Geosession can then be used for all requests for that particular day.

Example:

username = DSmith password = MYPassWd66

Concatenate the username and password with a colon in between and encrypt to base64 as a single string:

e.g: DSmith:MYPassWd66

This would result in a string of: RFNtaXRoOk1ZUGFzc1dkNjY=

This can be applied to the http request as a header of:

Authorization: Basic RFNtaXRoOk1ZUGFzc1dkNjY=

A returning http response code of 401 means the username or password are incorrect

#### **Content-Type**

application/json

#### Accept

application/json



#### **Example Request is shown below:**

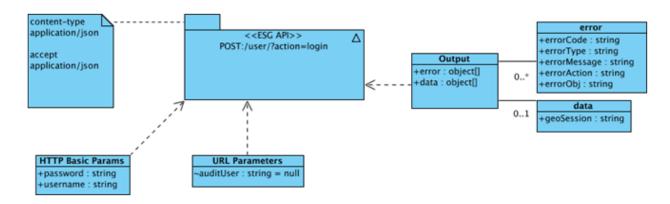
```
POST /user/?action=login HTTP/1.1
Host: api.dpd.co.uk
Content-Type: application/json
Accept: application/json
```

#### **Example Response is shown below:**

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 64

{
    "error":null,
    "data":{
        "geoSession":"1234567890ABCDEFGHIJK"
     }
}
```

#### **Object Overview Diagram**



#### HTTP Basic Parameters to combine to base64 string

Attribute	Туре	Description	Example
password	string	A secret word	
username	string	A human readable version of a user's name	

# **Response Object**

Attribute	Туре	Description	Example
data	object	An object returned from the API which encapsulates the returning data	
error	object[]	An object which encapsulates errors thrown by the API	

# Object - data

Attribute	Туре	Description	Example
geoSession	string	An object encapsulating session persistence.	

## Object - error

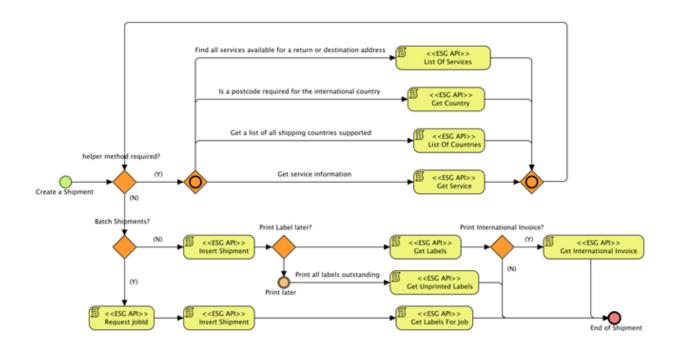
Attribute	Туре	Description	Example
errorAction	string	The action associated with the errorMessage, this can be null if no action was required	
errorCode	string	The errorCode associated with the errorMessage	
errorMessage	string	An error message given for an action which was not successful	
errorObj	string	The object within the past in criteria which caused this exception	
errorType	string	The error type assigned to a error	

# **Create Shipment**

In order to create a shipment several helper methods have been created which aid in creation of a shipment. The "List Of Services" API provides all the services available for a collection and delivery address, the "Get Country" can be used to validate if a postcode is required to an international address etc, the "List Of Countries" provides a full list of shipping destination countries, and "Get Service" retrieves codes and descriptions associated with a service.

Below are several different flows for submitting shipments and printing their labels; however at present the only option is by submitting each shipment using "Insert Shipment" and then retrieving its labels using "Get Labels".

**NOTE**: The "Request JobId", "Get Unprinted Labels", "Get Labels For Job" & "Get International Invoice" API's are not available, with no current plans to add them.



Each available API shown above is fully explained and broken into its components in the pages which follow.

# **API Definitions**

## List Of Services

URL=GET:/shipping/network/

The List of services API allows you to provide a postcode / address as a URL parameter and this will provide a list of available services to that particular destination. This should be used to validate the service you require is available to the required destination. The relevant network code can then be utilized within the Insert shipment request.

The shipmentType variable can be set to 1 or 2 if a collection on delivery or swap it service is required. The deliveryDirection flag should be set to 1 for outbound and 2 for inbound shipments.

#### Accept

application/json

#### **Example Request is shown below:**

GET

/shipping/network/?businessUnit=0&deliveryDirection=1&numberOfParcels=1&shipmen tType=0&totalWeight=1.0&deliveryDetails.address.countryCode=GB&deliveryDetails.address.ddress.countryName=&deliveryDetails.address.locality=&deliveryDetails.address.organisation=&deliveryDetails.address.postcode=&deliveryDetails.address.propert y=&deliveryDetails.address.street=&deliveryDetails.address.town=&deliveryDetails.address.countryCode=&collectionDetails.address.countryName=&collectionDetails.address.locality=&collectionDetails.address.organisation=&collectionDetails.address.postcode=&collectionDetails.address.property=&collectionDetails.address.street=&collectionDetails.address.town=&collectionDetails.address.country= HTTP/1.1

Host: api.dpd.co.uk
Accept: application/json
GeoClient: account/123456

GeoSession: 1234567890ABCDEFGHIJK

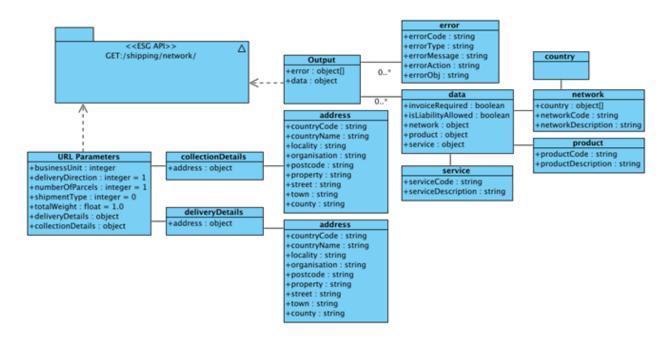
#### Example Response is shown below:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 480
```



```
"error":null,
      "data": [{
          "invoiceRequired":false,
        "isLiabilityAllowed":false,
      "network": {
             "country":[{
            "networkCode":"1^12",
            "networkDescription": "DPD NEXT DAY"
      },
      "product":{
            "productCode":"1^1",
            "productDescription": "Parcel"
      },
      "service":{
            "serviceCode":"1^2",
            "serviceDescription": "Dpd Next Day"
      }
      } ]
}
```

#### **Object Overview Diagram**



# URL Parameters to be passed in

Attribute	Туре	Description	Example
businessUnit	integer	An identifier containing the DPD Group business unit	
collectionDetails	object	An object encapsulating the collection details	
deliveryDetails	object	An object encapsulating the delivery details	
deliveryDirection	integer	An identifier which indicates the direction of the delivery	1
numberOfParcels	integer	The number of packages	1
shipmentType	integer	A placeholder to identify the type of shipment being processed	0
totalWeight	float	The total weight	5

# **Response Object**

Attribute	Туре	Description	Example
data	object	An object returned from the API which encapsulates the returning data	
error	object[]	An object which encapsulates errors thrown by the API	

# **Object - address**

Attribute	Туре	Description	Example
countryCode	string	The IATA code for a country	GB
countryName	string	The DPD Group name for a country	United Kingdom
county	string	The county section of an address	West Midlands

locality	string	A particular area	Smethwick
organisation	string	The organisational name assigned to a company	DPD Group Ltd
postcode	string	The assigned identity aligned to the property given by the post office	B66 1BY
property	string	The property name or number assigned to a collection/delivery point	
street	string	The street section of an address	Roebuck Lane
town	string	The town section of an address	Birmingham

# Object - collectionDetails

Attribute	Туре	Description	Example
address	object	An object containing properties which make up an address	
contactDetails	object	An object encapsulating contact information	

# Object - country

Attribute Type	Description	Example
----------------	-------------	---------

# Object - data

Attribute	Туре	Description	Example
invoiceRequired	boolean	An indicator to signify that an invoice is required	false
isLiabilityAllowed	boolean	An indicator that Extended Liability insurance cover is available	false



network	object	An object encapsulating a DPD Group network	
product	object	An object encapsulating a DPD Group shipping product	
service	object	An object encapsulating a service	

# Object - deliveryDetails

Attribute	Туре	Description	Example
address	object	An object containing properties which make up an address	
addressPoint	object	An object encapsulating the latitude and longitude of an address	
contactDetails	object	An object encapsulating contact information	
notificationDetails	object	An object encapsulating a recipient/customer notification	

# Object - error

Attribute	Туре	Description	Example
errorAction	string	The action associated with the errorMessage, this can be null if no action was required	
errorCode	string	The errorCode associated with the errorMessage	
errorMessage	string	An error message given for an action which was not successful	
errorObj	string	The object within the past in criteria which caused this exception	
errorType	string	The error type assigned to a error	



# Object - network

Attribute	Туре	Description	Example
country	object[]	An object encapsulating country attributes	
networkCode	string	The network code associated with the package	1^12
networkDescription	string	A human readable description of a DPD Group network	DPD NEXT DAY

# Object - product

Attribute	Туре	Description	Example
productCode	string	An indicator identifying a DPD Group product	1^1
productDescription	string	The human readable description of a DPD Group product	Parcel

# Object - service

Attribute	Туре	Description	Example
serviceCode	string	An identifier for a service	1^1
serviceDescription	string	The human readable description of a service	Dpd Next Day

# **Get Country**

URL=GET:/shipping/country/[countryCode]

This API brings back the country details for a provided country code and can be used to determine if a country requires a postcode or if liability is allowed etc.

#### Accept

application/json

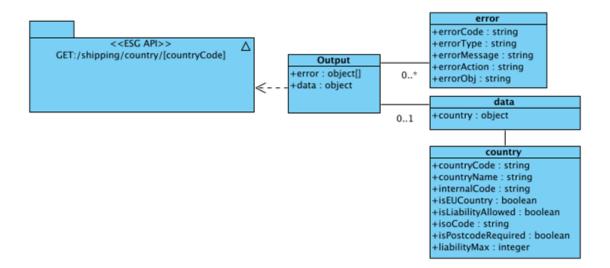
#### **Example Request is shown below:**

```
GET /shipping/country/GB HTTP/1.1
Host: api.dpd.co.uk
Accept: application/json
GeoClient: account/123456
GeoSession: 1234567890ABCDEFGHIJK
```

#### **Example Response is shown below:**

```
HTTP/1.1 200 OK
Content-Type: application/json
{
      "error":null,
      "data":{
      "country": {
        "countryCode": "GB",
            "countryName": "United Kingdom",
            "internalCode":"UK",
            "isEUCountry":false,
            "isLiabilityAllowed": false,
            "isoCode":"826",
            "isPostcodeRequired":false,
            "liabilityMax":5000
      }
      }
}
```

# **Object Overview Diagram**



### **Response Object**

Attribute	Туре	Description	Example
data	object	An object returned from the API which encapsulates the returning data	
error	object[]	An object which encapsulates errors thrown by the API	

## **Object - country**

Attribute	Туре	Description	Example
countryCode	string	The IATA code for a country	GB
countryName	string	The DPD Group name for a country	United Kingdom
internalCode	string	Internal country code	UK
isEUCountry	boolean	An indicator that a country is part of the European Union	false
isLiabilityAllowed	boolean	An indicator that Extended Liability insurance cover is available	false

isPostcodeRequired	boolean	An indicator that a post code is required to complete an adddress	false
isoCode	string	A value containing an iso country code	826
liabilityMax	integer	The maximum value the shipment can be	5000

# Object - data

Attribute	Туре	Description	Example
country	object	An object encapsulating country attributes	

# Object - error

Attribute	Туре	Description	Example
errorAction	string	The action associated with the errorMessage, this can be null if no action was required	
errorCode	string	The errorCode associated with the errorMessage	
errorMessage	string	An error message given for an action which was not successful	
errorObj	string	The object within the past in criteria which caused this exception	
errorType	string	The error type assigned to a error	

# **List Of Countries**

URL=GET:/shipping/country

Provides a full list of available shipping countries

#### Accept

application/json

#### **Example Request is shown below:**

```
GET /shipping/country HTTP/1.1
Host: api.dpd.co.uk
Accept: application/json
GeoClient: account/123456
GeoSession: 1234567890ABCDEFGHIJK
```

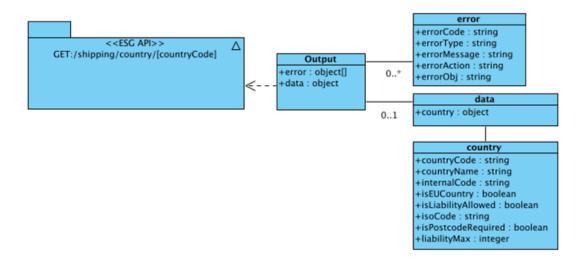
#### **Example Response is shown below:**

```
HTTP/1.1 200 OK
Content-Type: application/json
{
    "data": {
        "country": [
            {
                "countryCode": "GB",
                "countryName": "United Kingdom",
                "isoCode": "826",
                "isEUCountry": false,
                "isLiabilityAllowed": true,
                "liabilityMax": 5000,
                "isPostcodeRequired": true
            } ,
            {
                "countryCode": "IE",
                "countryName": "Republic of Ireland",
                "isoCode": "372",
                "isEUCountry": false,
                "isLiabilityAllowed": true,
                "liabilityMax": 5000,
                "isPostcodeRequired": false
            }
```



```
}
```

## **Object Overview Diagram**



# **Response Object**

Attribute	Туре	Description	Example
data	object	An object returned from the API which encapsulates the returning data	
error	object[]	An object which encapsulates errors thrown by the API	

## **Object - country**

Attribute	Туре	Description	Example
countryCode	string	The IATA code for a country	GB
countryName	string	The DPD Group name for a country	United Kingdom
internalCode	string	Internal country code	UK
isEUCountry	boolean	An indicator that a country is part of the European Union	false

isLiabilityAllowed	boolean	An indicator that Extended Liability insurance cover is available	true
isPostcodeRequired	boolean	An indicator that a postcode is required to complete an address	true
isoCode	string	A value containing an iso country code	826
liabilityMax	integer	The maximum value the shipment can be	5000

# Object - data

Attribute	Туре	Description	Example
country	object[]	An object encapsulating country attributes	

# Object - error

Attribute	Туре	Description	Example
errorAction	string	The action associated with the errorMessage, this can be null if no action was required	
errorCode	string	The errorCode associated with the errorMessage	
errorMessage	string	An error message given for an action which was not successful	
errorObj	string	The object within the past in criteria which caused this exception	
errorType	string	The error type assigned to an error	

# **Get Service**

URL=GET:/shipping/network/[GeoServiceCode]

Retrieves the supported countries for a GeoServiceCode

#### Accept

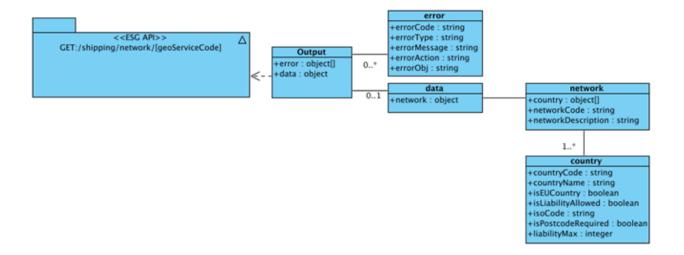
application/json

#### **Example Request is shown below:**

```
GET /shipping/network/812 HTTP/1.1
Host: api.dpd.co.uk
Accept: application/json
GeoClient: account/123456
GeoSession: 1234567890ABCDEFGHIJK
```

#### **Example Response is shown below:**

# **Object Overview Diagram**



### **Response Object**

Attribute	Туре	Description	Example
data	object	An object returned from the API which encapsulates the returning data	
error	object[]	An object which encapsulates errors thrown by the API	

## **Object - country**

Attribute	Туре	Description	Example
countryCode	string	The IATA code for a country	
countryName	string	The DPD Group name for a country	
isEUCountry	boolean	An indicator that a country is part of the European Union	
isLiabilityAllowed	boolean	An indicator that Extended Liability insurance cover is available	

isPostcodeRequired	boolean	An indicator that a postcode is required to complete an address	
isoCode	string	A value containing an iso country code	
liabilityMax	integer	The maximum value the shipment can be	

# Object - data

Attribute	Туре	Description	Example
network	object	An object encapsulating a DPD Group network	

# Object - error

Attribute	Туре	Description	Example
errorAction	string	The action associated with the errorMessage, this can be null if no action was required	
errorCode	string	The errorCode associated with the errorMessage	
errorMessage	string	An error message given for an action which was not successful	
errorObj	string	The object within the past in criteria which caused this exception	
errorType	string	The error type assigned to an error	

# Object - network

Attribute	Туре	Description	Example
country	object[]	An object encapsulating country attributes	
networkCode	string	The network code associated with the package	1^12
networkDescription	string	A human readable description of a DPD Group network	DPD NEXT DAY

# **Insert Shipment**

URL=POST:/shipping/shipment

Creates a shipment object.

Example JSON Payloads are available from the DPDgroup UK IT Customer Integration Team. (See 'Support Contacts' section for further details).

A second consignment can be added if a returning consignment is required; an example would be the SwapIt/ Reverse It service's.

The test URL parameter can be used to see if the request is valid before submitting the shipment and can be useful within a transaction of shipments when all shipments are required to succeed (e.g https://api.dpd.co.uk/shipping/shipment?test=true). This will allow you to validate that the request is successful before actually submitting.

**NOTE:** Not all listed post parameters are required for all services. Please utilise example request below as a basis for structuring your own request

#### **Content-Type**

application/json

#### Accept

application/json

#### **Example Request is shown below:**

```
POST /shipping/shipment HTTP/1.1
Host: api.dpd.co.uk
Content-Type: application/json
Accept: application/json
GeoClient: account/123456
GeoSession: 1234567890ABCDEFGHIJK

{
    "jobId": null,
```

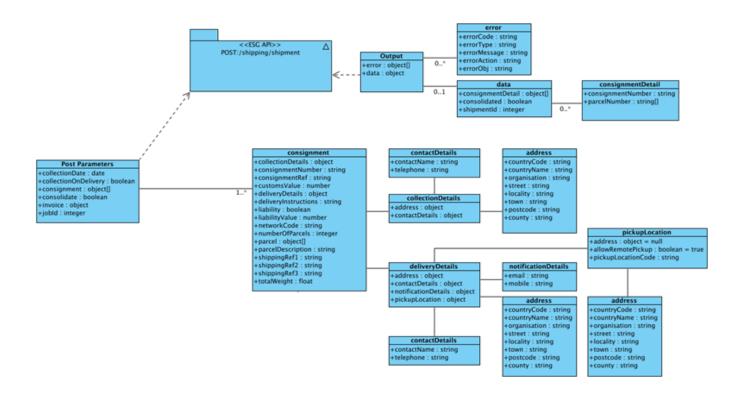


```
"collectionOnDelivery": false,
"invoice": null,
"collectionDate": "2019-04-03T09:00:00",
"consolidate": false,
"consignment": [
      {
             "consignmentNumber": null,
             "consignmentRef": null,
             "parcel": [],
             "collectionDetails": {
                    "contactDetails": {
                           "contactName": "My Contact",
                           "telephone": "0121 500 2500"
                    },
                    "address": {
                           "organisation": "DPD Group Ltd",
                           "countryCode": "GB",
                           "postcode": "B66 1BY",
                           "street": "Roebuck Lane",
                           "locality": "Smethwick",
                           "town": "Birmingham",
                           "county": "West Midlands"
                    }
             },
             "deliveryDetails": {
                    "contactDetails": {
                           "contactName": "My Contact",
                           "telephone": "0121 500 2500"
                    },
                    "address": {
                           "organisation": "DPD Group Ltd",
                           "countryCode": "GB",
                           "postcode": "B66 1BY",
                           "street": "Roebuck Lane",
                           "locality": "Smethwick",
                           "town": "Birmingham",
                           "county": "West Midlands"
                    },
                    "notificationDetails": {
                           "email": "my.email@dpdgroup.co.uk",
                           "mobile": "07921000001"
                    }
             },
             "networkCode": "1^12",
             "numberOfParcels": 1,
             "totalWeight": 5,
             "shippingRef1": "My Ref 1",
             "shippingRef2": "My Ref 2",
             "shippingRef3": "My Ref 3",
             "customsValue": null,
```



### **Example Response is shown below:**

#### **Object Overview Diagram**



#### **Post Parameters**

1 OSC 1 diameters			
Attribute	Туре	Description	Example
collectionDate (Mandatory)	date	Collection Date and approximate time of parcel collection.	2019-04-03T09:00:00
collectionOnDelivery (Mandatory)	boolean	Indicates if a collection is due on delivery (Should be set to true for Swap it / Reverse It Services)	false
consignment (Mandatory)	object[]	An object which encapsulates the details to deliver to a single address which can have 1 or more parcels	
consolidate (Mandatory)	boolean	Indicates if an object is found within the database with similar details it can be merged with this item	false (Must always set to false)

invoice (Mandatory)	object	An object which encapsulates the international invoice details	
jobld <b>(Mandatory)</b>	integer	The id associated with a collection of objects	null (Must always be null)

# **Object - consignment**

Attribute	Туре	Description	Example
collectionDetails (Mandatory)	object	An object encapsulating the collection details	
consignmentNumber (Mandatory)	string	The identifier number for the delivery to the address	null (Must always be null)
consignmentRef (Mandatory)	string	A link to the parent consignment number	null (Must always be null)
customsValue (Mandatory)	number	The customs / invoice value. This should be null value for Domestic UK shipments	null
deliveryDetails (Mandatory)	object	An object encapsulating the delivery details	
deliveryInstructions	string	The delivery instructions associated with delivering a parcel	Please deliver with neighbour
liability (Mandatory)	boolean	Is liability required (true/false)	false
liabilityValue <b>(Mandatory)</b>	number	The value the product should be insured (To be populated if liability is set to "true" or null value when set to false), (Maximum Value £5000.)	null
networkCode (Mandatory)	string	The network code associated with the Service you wish to use (e.g 1^12)	1^12
numberOfParcels (Mandatory)	integer	The number of packages	1
parcel <b>(Mandatory)</b>	object[]	An object which encapsulates all the parcels details , Should be empty array for Domestic UK Shipments.	
parcelDescription	string	A detailed description of what is present in the parcel. This field is used by our suppliers for customs entries. It is vital that it is populated correctly. If not International Shipment should be left as empty string (Max 50 Characters)	
shippingRef1	string	The first reference associated with the shipment (Max 25 Characters)	My Ref 1



shippingRef2	string	The second reference associated with the shipment (Max 25 Characters)	My Ref 2
shippingRef3	string	The third reference associated with the shipment (Max 25 Characters)	My Ref 3
totalWeight (Mandatory)	float	In Kg - the total weight of the parcel to be displayed on the invoice	5

# Object - deliveryDetails

Attribute	Туре	Description	Example
address (Mandatory)	object	An object containing properties which make up an address	
contactDetails (Mandatory)	object	An object encapsulating contact information	
notificationDetails (Mandatory)	object	An object encapsulating a recipient/customer notification	

# Object - address

Attribute	Туре	Description	Example
countryCode (Mandatory)	string	The IATA code for a country (Max 2 Characters)	GB
county	string	The county section of an address (Max 35 Characters)	West Midlands
locality	string	A particular area (Max 35 Characters)	Smethwick
organisation (Mandatory)	string	The organisational name assigned to a company or receivers name. (Max 35 Characters)	DPD Group Ltd
postcode (Mandatory)	string	The assigned identity aligned to the property given by the post office	B66 1BY
street (Mandatory)	string	The street section of an address (Max 35 Characters)	Roebuck Lane
town (Mandatory)	string	The town section of an address (Max 35 Characters)	Birmingham

**Object - contactDetails** 

Attribute	Туре	Description	Example
contactName (Mandatory)	string	The contact name (Max 35 Characters)	My Contact
telephone (Mandatory)	string	A telephone number (Max 15 Characters)	0121 500 2500

Object - notificationDetails

Attribute	Туре	Description	Example
email	string	An email address to send any applicable notifications (Max 50 Characters)	my.email@dpdgroup.co.uk
mobile	string	An SMS Number to send any applicable notifications (Max 15 Characters)	07921000001

Object - collectionDetails

Attribute	Туре	Description	Example
address (Mandatory)	object	An object containing properties which make up an address	
contactDetails (Mandatory)	object	An object encapsulating contact information	

Object - address

Attribute	Туре	Description	Example
countryCode (Mandatory)	string	The IATA code for a country (Max 2 Characters)	GB
county	string	The county section of an address (Max 35 Characters)	West Midlands
locality	string	A particular area (Max 35 Characters)	Smethwick
organisation (Mandatory)	string	The organisational name assigned to a company (Max 35 Characters)	DPD Group Ltd
postcode (Mandatory)	string	The assigned identity aligned to the property given by the post office	B66 1BY
street (Mandatory)	string	The street section of an address (Max 35 Characters)	Roebuck Lane
town (Mandatory)	string	The town section of an address (Max 35 Characters)	Birmingham



Object - contactDetails

Attribute	Туре	Description	Example
contactName	string	The contact name (Max 35 Characters)	My Contact
telephone	string	A telephone number (Max 15 Characters)	0121 500 2500

Object - parcel

Attribute Type	Description	Example
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Object - invoice

Attribute Type	Description	Example
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**Response Object** 

Attribute	Туре	Description	Example
data	object	An object returned from the API which encapsulates the returning data	
error	object[]	An object which encapsulates errors thrown by the API	

Object - data

Attribute	Туре	Description	Example
consignmentDetail	object[]	Holds the consignment and parcel numbers	
consolidated	boolean	indicator to determine whether a shipment has been consolidated	false
shipmentId	integer	An identifier for a shipment	1055223

Object - consignmentDetail

Attribute	Туре	Description	Example
consignmentNumber	string	The identifier number for the delivery to the address	1999236263
parcelNumber	string[]	The 14 digit number used to track the parcel	15501999236263



Object - error

Attribute	Туре	Description	Example
errorAction	string	The action associated with the errorMessage, this can be null if no action was required	
errorCode	string	The errorCode associated with the errorMessage	
errorMessage	string	An error message given for an action which was not successful	
errorObj	string	The object within the past in criteria which caused this exception	
errorType	string	The error type assigned to an error	

# **Error Code Summary**

Name	Туре	Description
1014	application error	Account on stop
1000	application error	General Application Error
1008	validation error	Invalid boolean value
1009	validation error	Invalid postcode value
1010	validation error	Invalid telephone number
1011	validation error	Invalid number (integer)
1012	validation error	Invalid number (float)
1013	validation error	Invalid email address
1015	validation error	Maximum value exceeded
1016	validation error	Number should be between 0.01 and 9999999.99
1017	validation error	Number should be between 1 and 99999

#### Get Labels

URL=GET:/shipping/shipment/[shipmentId]/label/

Once a shipment has been created this API is available to pass the shipmentId returned from the insert shipment API to return label output.

The label can be returned in different formats by setting the appropriate accept type header. Please see available options below:

**text/vnd.citizen-clp**; - For use with Citizen Thermal Printers (Please refer to prerequisites for label dimension information.)

**text/vnd.eltron-epl;** = Intended for use with Eltron Printer / Or certain printer models that support EPL emulation. (Please refer to prerequisites for label dimension information.)

**text/html** = Plain text HTML output, intended for printing to A4 laser Printer on A4 stationary



**WARNING:** Printing the HTML output provided via the API to a Thermal printer may cause the label output to be scaled and fall under minimum requirements. Scaled output will almost certainly fail verification once the label is received by ourselves and analysed, therefore is not recommended.

The HTML output includes padding around the label to ensure when printed to A4 stationery the label size is correct. This makes HTML output too large and unsuitable to be printed via thermal printer/thermal stationery.

Sample label outputs (Printer Strings & HTML) are available from the DPDgroup UK IT Customer Integration Team. (See 'Support Contacts' section for further details).

#### **Accept**

text/vnd.citizen-clp;
text/vnd.eltron-epl;
text/html

#### **Example Request is shown below:**

GET /shipping/shipment/1055223/label/ HTTP/1.1

Host: api.dpd.co.uk

Accept: text/vnd.citizen-clp GeoClient: account/123456

GeoSession: 1234567890ABCDEFGHIJK \_\_\_\_

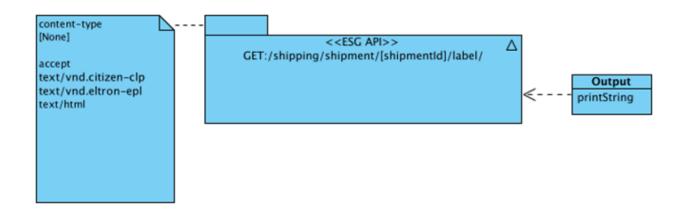
#### **Example Response is shown below:**

HTTP/1.1 200 OK \_

Content-Type: text/vnd.citizen-clp \_\_\_



#### **Object Overview Diagram**



#### **Response Object**

Attribute	Туре	Description	Example
printString		The actual print string to be sent to the printer	





## **Barcode Metrics**

There are important dimensional properties that must be fulfilled for labels to pass verification. It is highly recommended that this is validated prior to sending physical label examples for sign off. NOTE: Use only white label stock (Direct thermal printing preferred).

#### **Laser/Thermal Printer**

Overall Bar Code Size
Barcode dimensions:
Minimum: 91.5mm x 25mm height

#### **Bar-Code Quiet Zones**

You <u>must</u> have a minimum of 5 mm on either side of the bar code extending at 45 degrees from the corners (see below). Additionally, you <u>must</u> have a minimum of 1mm on top and bottom of the entire barcode.

