

Domestic and international routing API

9th March, 2017 Author: Marcin Wloch

Version: 1.2

Document versions and changes

9 March 2017	VERSION 1.0
Webservice	Change
11 th April 2017	VERSION 1.1

29 th June 2017	Data review

Route

HTTP Method: POST

Content-Type: application/xml or application/json

Accept: application/xml or application/json

Authentication: Basic or Token based (subject to agreement between DPD and the client)

URL

https://papi.dpd.ie/common/api/route

Authorization format & code is provided by DPD Ireland.

Routing API is publicly open service.

To use it, customer must have a token and include it with header for each call - this is unique number for each customer.

Token must be obtained from DPD Ireland.

AUTHORIZATION REQUEST HEADER (Basic authentication model)

Field	Format	Example	Description
Authorization	Basic Token	"Basic QWxhZGRpbjpPcGVuU2VzYW11"	The Basic Token provided by DPD Ireland for the user of web service. It's always the same for all calls and it won't expire.

AUTHORIZATION REQUEST HEADER (Token authentication model)

Field	Format	Example	Description
Authorization	Bearer Token	"Bearer QWxhZGRpbjpPcGVuU2VzYW11"	The Bearer Token provided by DPD Ireland for the user of web service. It's always the same for all calls and it will expire on agreed date/time.

INPUT - XML message

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Parameter	Туре	M	Example	Description
		/		
		0		
RoutingRequest	XML root node			
RequestId	CHR	М	"001"	Custom identifier for the request – will be return in the response. Should be unique per single API call.
CustomerAccount	CHR	М	"1234L3"	A DPD Ireland customer identifier
ServiceType	CHR	М	"1"	One of: 1 – Overnight 2 – Saturday delivery 3 – Timed 4 – Special 5 – Cancelled On Arrival 6 – 2 day service
ServiceOption	CHR	М	"5"	One of: 1 – COD (cheque on

	GIVID.			delivery) 2 – PDS (premium document service) 3 – RR (return receipt) 4 – SW (swapit) 5 – N (normal) Road or AirExpress,
Method	CHR	О	"Road"	mandatory for international shipments
BusinessName	CHR	M	"Mary's newsagent"	Recipient company or person name
AddressLine1	CHR	M		Recipient address line 1 (Street)
AddressLine2	CHR	О		Recipient address line 2
AddressLine3	CHR	M		Recipient address line 3 (City)
AddressLine4	CHR	О		Recipient address line 4
Country	CHR	М	"GB"	Valid 2 characters GeoCountry code: See appendix A
PostCode	CHR	0	"CA11LN"	Valid postcode. Mandatory for deliveries outside Republic Of Ireland
DestinationDepot	CHR	0	6693	Optional – Destination Depot number - for future use – should be blank or omitted in the request message
DestinationNetwork	CHR	0	659	Optional – Destination

				Network Code – should be blank or omitted
TradeStatus	CHR	0	6637	Possible values: "" – empty – default value, "F" – Free = customer cleared parcels, "C" – Custom = custom not cleared parcels
AsCode	CHR	О	4633	Optional – Additional Service Code – should be blank or omitted
SubCode	CHR	0	4637	Optional – If a sender has his own Injection Code, then the last 2 digit should be used as SubCode – other way – leave blank or omit

OUTPUT – XML message

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Field	Туре	M/	Example	Description	
		0			
RoutingResponse	XML – root node				
RequestId	CHR	M	"001"	Custom identifier for routing	
				request – taken from	
				request message	
InternationalShipment	CHR	M	"false"	true – international shipment	
				false – domestic shipment	
DeliveryDepot	CHR	M	"44"	DPD IE depot number	
BarcodeService	CHR	M	"101"	Barcode service code	
Barcodeld	CHR	M	"%"	28 digit barcode leading	

				character – 1 character length
BarcodePostcode	CHR	M	"0CA11LN"	28 digit barcode postcode part – 7 characters length (leading with zeros if required)
BuAlphaStr	CHR	M	"DPD"	Business Unit – company code – 3 characters length
BuCode	CHR	M	"011"	Business Unit – code – 3 digit number with leading zeros
CSort	CHR	M	4439	CSort information – max length: 5 characters
DCountry	CHR	M	"GB"	Destination GeoCountry code: See appendix A
DDepot	CHR	M	"0111550"	Destination depot number – length: 7 digits with leading zeros
DDepotCountry	CHR	M	"GB"	Destination depot country: See appendix A
DDepotStr	CHR	M	"1550"	4 digit Destination Depot number
DSort	CHR	M	6633	DSort information – max length: 5 characters
NetworkCode	CHR	М	"826"	3 digits network code with leading zeros
OSort	CHR	М	un	OSort information – max length: 5 characters
PartnerCode	CHR	М	6677	Partner Code – max length:

				3 characters
ServiceMark	CHR	M	2637	Service Mark – length: 1
				character
ServiceText	CHR	M	"D"	Service Text – max length:
				18 characters
SSort	CHR	M	4633	SSort information – max
				length: 5 characters
Version	CHR	M	"17010205"	Version of routing database
Status	CHR	M	"OK"	Status if response is correct
				or not
				OK – correct response
				FAIL – incorrect response
RoutingDate	Date	M	24-05-2017	Date of call
RoutingTime	Int	M	15:35:36	Time of call
LegalDisclaimerLine1	CHR	M		To be placed at the top of
				the label 1st line
LegalDisclaimerLine2	CHR	M		To be placed at the top of
_				the label 2nd line
WarningList	CHR	0	4633	List of warning messages if
				exists
RoutingError	CHR	0	4633	List of Errors if exists (when
				Status = FAIL)

Domestic - Request for address in Republic of Ireland

Example of request:

```
<?xml version="1.0" encoding="utf-8"?>
<RoutingRequest>
    <RequestId>1</RequestId>
    <CustomerAccount>1234L3</CustomerAccount>
    <ServiceType>1</ServiceType>
    <ServiceOption>5</ServiceOption>
    <BusinessName>DPD Head Office</BusinessName>
    <AddressLine1>Dublin Road</AddressLine1>
    <AddressLine2>Athlone Business Park</AddressLine2>
    <AddressLine3>Athlone</AddressLine3>
    <AddressLine4>Westmeath</AddressLine4>
    <Country>IE</Country>
    <PostCode></PostCode>
</RoutingRequest>
```

Successful response

```
<RoutingResponse>
    <RequestId>1</RequestId>
    <InternationalShipment>false</InternationalShipment>
    <DeliveryDepot>44</DeliveryDepot>
    <BarcodeService>001</BarcodeService>
```

- <Barcodeld>%</Barcodeld>
- <BarcodePostcode>0237075</BarcodePostcode>
- <BuAlphaStr>DPD</BuAlphaStr>
- <BuCode>011</BuCode>
- <CSort/>
- <DCountry>IE</DCountry>
- <DDepot>0111601</DDepot>
- <DDepotCountry>IE</DDepotCountry>
- <DDepotStr>1601</DDepotStr>
- <DSort/>
- <NetworkCode>372</NetworkCode>
- <OSort/>
- <PartnerCode/>
- <ServiceMark/>
- <ServiceText>D</ServiceText> <SSort/>
- <Version>17050105</Version>
- <Status>OK</Status>
- <RoutingDate>30-05-2017</RoutingDate>
- <RoutingTime>15:49:10</RoutingTime>
- <LegalDisclaimerLine1>Notification on damage which is not recognisable from the outside</LegalDisclaimerLine1>
- <LegalDisclaimerLine2>has to be submitted to DPD within 7 days in writing
- </RoutingResponse>

Domestic - Request for address in Northern Ireland

Example of request:

```
<?xml version="1.0" encoding="utf-8"?>
<RoutingRequest>
   <RequestId>1</RequestId>
   <CustomerAccount>1234L3</CustomerAccount>
   <ServiceType>1</ServiceType>
   <ServiceOption>5</ServiceOption>
   <BusinessName>Test NI address</BusinessName>
   <AddressLine1>Kilbegs Road</AddressLine1>
   <AddressLine2>Kilbegs Business Park</AddressLine2>
   <AddressLine3>Antrim</AddressLine3>
   <AddressLine4></AddressLine4>
   <Country>IE</Country>
   <PostCode>BT414LY</PostCode>
</RoutingRequest>
```

Successful response

```
<RoutingResponse>
  <RequestId>1</RequestId>
  <InternationalShipment>false</InternationalShipment>
  <DeliveryDepot>60</DeliveryDepot>
  <BarcodeService>001</BarcodeService>
  <BarcodeId>%</BarcodeId>
  <BarcodePostcode>BT414LJ</BarcodePostcode>
  <BuAlphaStr>DPD</BuAlphaStr>
```

```
<BuCode>011</BuCode>
<CSort/>
<DCountry>IE</DCountry>
<DDepot>0111601</DDepot>
<DDepotCountry>IE</DDepotCountry>
<DDepotStr>1601</DDepotStr>
<DSort/>
<NetworkCode>372</NetworkCode>
<OSort/>
<PartnerCode/>
<ServiceMark/>
<ServiceText>D</ServiceText>
<SSort/>
<Version>17050105</Version>
<Status>OK</Status>
<RoutingDate>30-05-2017</RoutingDate>
<RoutingTime>15:51:35</RoutingTime>
<LegalDisclaimerLine1>Notification on damage which is not recognisable from the outside</LegalDisclaimerLine1>
<LegalDisclaimerLine2>has to be submitted to DPD within 7 days in writing
```

International address

Example of request:

</RoutingResponse>

```
<?xml version="1.0" encoding="utf-8"?>
<RoutingRequest>
<RequestId>1</RequestId>
```

- <CustomerAccount>1234L3</CustomerAccount>
- <ServiceType>1</ServiceType>
- <ServiceOption>5</ServiceOption>
- <Method>Road</Method>
- <BusinessName>DPD Opole</BusinessName>
- <AddressLine1>Wspolna 24</AddressLine1>
- <AddressLine2></AddressLine2>
- <AddressLine3>Opole</AddressLine3>
- <AddressLine4></AddressLine4>
- <Country>PL</Country>
- <PostCode>45304</PostCode>
- </RoutingRequest>

Successful response

- <RoutingResponse>
- <RequestId>1</RequestId>
- <InternationalShipment>true/InternationalShipment>
- <DeliveryDepot>402</DeliveryDepot>
- <BarcodeService>101/BarcodeService>
- <Barcodeld>%</Barcodeld>
- <BarcodePostcode>0045304/BarcodePostcode>
- <BuAlphaStr>DPD</BuAlphaStr>
- <BuCode>021</BuCode>
- <CSort/>
- <DCountry>PL</DCountry>
- <DDepot>0211319</DDepot>
- <DDepotCountry>PL</DDepotCountry>

Failed response - unauthorized user-created-returning HTTP status 401

(If customer will provide incorrect account number server will respond with HTTP status 401)

Error message as response

```
Confidential
{font-family:Tahoma, Arial, sans-serif; color: white; background-color: #525D76; font-size: 14px;}
                                                                                                                              BODY
{font-family:Tahoma,Arial,sans-serif;color:black;background-color:white;}
                                                                                                                                   В
{font-family:Tahoma, Arial, sans-serif; color: white; background-color: #525D76;}
                                                                                                                                   Р
{font-family:Tahoma, Arial, sans-serif; background: white; color: black; font-size: 12px; }A {color: black; }HR {color: #525D76; }-->
   </style>
 </head>
 <body>
   <h1>HTTP Status 401 - Unauthorized</h1>
   <hr/>
   >
     <b>type</b>
     Status report
   >
     <b>message</b>
     Unauthorized
   >
     <b>description</b>
     This request requires HTTP authentication.
   <hr/>
   <h3>GlassFish Server Open Source Edition 4.1.1</h3>
 </body>
```

Failed response - domestic - incorrect country code

Example of request:

</html>

<?xml version="1.0" encoding="utf-8"?>
<RoutingRequest>
 <RequestId>1</RequestId>
 <CustomerAccount>3L4</CustomerAccount>
 <ServiceType>1</ServiceType>
 <ServiceOption>5</ServiceOption>
<BusinessName>ACME Limited</BusinessName>
 <AddressLine1>Main St.</AddressLine1>
 <AddressLine2>Athlone</AddressLine2>
 <AddressLine3>Westmeath</AddressLine3>
 <AddressLine4></AddressLine4>
<PostCode></PostCode>

Failed response

</RoutingRequest>

<Country>GB</Country>

<RoutingResponse>
 <RequestId/>
 <InternationalShipment/>
 <DeliveryDepot/>
 <BarcodeService/>
 <BarcodeId/>
 <BarcodePostcode/>
 <BuAlphaStr/>
 <BuCode/>
 <CSort/>
 <DCountry/>
 <DDepotCountry/>
 <DDepotStr/>

```
<DSort/>
<NetworkCode/>
<OSort/>
<PartnerCode/>
<ServiceMark/>
<ServiceText/>
<Ssort/>
<Version/>
<Status>FAIL</Status>
<RoutingDate/>
<RoutingTime/>
<LegalDisclaimerLine1/>
<LegalDisclaimerLine2/>
<RoutingError>Missed PostCode (mandatory for deliveries outside Rep. of Ireland)</RoutingError>
</RoutingResponse>
```

Failed response -international - missing postcode

Example of request:

```
<?xml version="1.0" encoding="utf-8"?>
<RoutingRequest>
   <RequestId>1</RequestId>
   <CustomerAccount>3L4</CustomerAccount>
   <ServiceType>1</ServiceType>
   <ServiceOption>5</ServiceOption>
   <Method>Road</Method>
   <BusinessName>HOTEL BERLIN</BusinessName>
   <AddressLine1>Lützowplatz 17</AddressLine1>
   <AddressLine2>Berlin</AddressLine2>
```

<AddressLine3>BERLIN</AddressLine3>
<AddressLine4>BERLIN</AddressLine4>
<Country>DE</Country>
<PostCode></PostCode>
</RoutingRequest>

Failed response

- <RoutingResponse>
 - <RequestId/>
 - <InternationalShipment/>
 - <DeliveryDepot/>
 - <BarcodeService/>
 - <Barcodeld/>
 - <BarcodePostcode/>
 - <BuAlphaStr/>
- <BuCode/>
- <CSort/>
- <DCountry/>
- <DDepot/>
- <DDepotCountry/>
- <DDepotStr/>
- <DSort/>
- <NetworkCode/>
- <OSort/>
- <PartnerCode/>
- <ServiceMark/>
- <ServiceText/>
- <SSort/>
- <Version/>

- <Status>FAIL</Status>
- <RoutingDate/>
- <RoutingTime/>
 <LegalDisclaimerLine1/>
- <LegalDisclaimerLine2/>
- <RoutingError>Missed PostCode (mandatory for deliveries outside Rep. of Ireland)/RoutingError>
- </RoutingResponse>