API for Common Web Tracking / Quick Tracking

Version: 1.8

Document versions and changes

9 March 2017	VERSION 1.0
Webservice	**Change**
quickTracking	NEW webservice for WebTracking
tracking	NEW webservice for WebTracking
22 March 2017	**VERSION 1.1**
Webservice	**Change**
quickTracking	Change the request message fields. Add some fields to response message.
Tracking	Change the request message fields. Add some fields to response message.
27 March 2017	**VERSION 1.2**
Webservice	**Change**
quickTracking	Add Parcel number field to Response message
Tracking	Add Parcel number field to Response message
5 October 2017	**VERSION 1.3**

Webservice	Change
quickTracking/chatbot	NEW webservice for WebTracking
quickTracking	Add json type as response format
5 October 2017	**VERSION 1.4**
Webservice	**Change**
quick Tracking	Removal of Chatbot message
13 October 2017	**VERSION 1.5**
Webservice	**Change**
quick Tracking	Removal of test URLs and revise Live URL
20 March 2018	**VERSION 1.6**
Webservice	**Change**
quick Tracking	Add fields for Customer Portal
Tracking	Add fields for Customer Portal
25 April 2018	**VERSION 1.7**
Webservice	**Change**
quick Tracking	Add PackingAvailable field to response

Tracking	Add PackingAvailable field to response
packingList	NEW API
8 October 2018	**VERSION 1.8**
Webservice	**Change**
Tracking	Add EventImageAvailable, ElementImageAvailable field to response

quickTracking

HTTP Method: **POST**
Content-Type: **application/xml**
Accept: **application/xml or application/json**
Security: **Basic authentication**

LIVE ENVIRONMENT URL
https://papi.dpd.ie/common/api/track

REQUEST HEADER

Field	Format	Example	Description
Authorization	Basic encryptedToken	"Basic QWxhZGRpbjpPcGVuU2VzYW1l"	The encryptedToken is provided by DPD Ireland to the user of web service. It's always the same for all calls.

REQUEST – XML message

Parameter	Type	M/O	Example	Description
TrackingRequest			XML root node	
RequestLine			XML sub node for TrackingRequest	

TrackingNumber	CHR	M	"683423456"	The tracking number string – depends on type can be: DPD Ireland consignment number (9 digit), customer reference value (any string) or 14 digit parcel number
TrackingType	CHR	M	"consignment"	Type of tracking number: possible values are: consignment, reference or parcel

RESPONSE – XML message

Field	Type	M/O	Example	Description
TrackingResponse			XML – root node		
TrackingInfo			XML – sub node for TrackingResponse		
TrackingNumber	CHR	M	"687435421"	Tracking number used in Request
ConsignmentNumber	CHR	M	"687435421"	DPD Ireland consignment number
ConsignmentDate	CHR	M	"03/09/2017"	Consignment create date
ReferenceNumber	CHR	M	"Ref123"	Reference number for consignment
PredictionTime	CHR	O	"11:00:00 – 12:00:00"	Predicted delivery time range
ConsignmentService	CHR	O	"STANDARD OVERNIGHT"	Consignment's service name
ConsignmentParcels	CHR	O	"1"	Number of parcels per consignment
ConsignmentStatus	CHR	O	"OUT FOR DELIVERY"	The current consignment status – name of the last consignment's event
ConsignmentStatusDate	CHR	O	"03/09/2017 09:22:49"	Last consignment's event date and time

PackingAvailable	CHR	O	"true"	true - packing list is available for the consignment (call packingList API to get detailed packing info) otherwise - packing list not available
TrackingHistory		XML sub node for TrackingInfo		
EventDetail		XML sub node for TrackingHistory		
EvenDate	CHR	M	"10/03/2017"	Event date
EvenTime	CHR	M	"12:20:00"	Event time
EvenType	CHR	M	"10"	Event type
EvenTypeName	CHR	M	"Hub scan"	Event name
EvenDepot	CHR	M	"500"	Depot number
EvenDepotName	CHR	M	"Head Office"	Depot name
EventUrl	CHR	O	"https://manage.dpd.ie/Default.aspx"	URL for some extra functionality related to the event
ParcelNo	CHR	M	"1"	Parcel number
ParcelRef	CHR	O	"15501234567891"	GeoPost 14 digit parcel number, or 10 digit UK parcel number or customer parcel reference number
TrackingErrorInfo		XML sub node for TrackingResponse		
TrackingNumber	CHR	M	"683423456"	TrackingNumber from request message
TrackingErrorDetail		XML sub node for TrackingErrorInfo		
ErrorDetailCode	CHR	M	"ERROR 201"	Error code
ErrorDetailCodeDesc	CHR	M	"YOU ARE NOT AUTHORISED TO SEE THIS DATA"	Error description

<u>Usage examples:</u>

Example1: Proper request for 1 consignment:

Request message header:

```
Content-Type:  application/xml
Accept:        application/xml
Authorization: Basic QWxhZGRpbjpPcGVuU2VzYW1l
```

Request message contents:
```xml
<?xml version="1.0" encoding="utf-8"?>
<TrackingRequest>
     <RequestLine>
          <TrackingNumber>684534576</TrackingNumber>
          <TrackingType>consignment</TrackingType>
     </RequestLine>
</TrackingRequest>
```

Response message http status:
200 OK

Response message contents:
```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<TrackingResponse>
     <TrackingInfo>
          <TrackingNumber>
```

```
        716050045
</TrackingNumber>
<ConsignmentNumber>
        716050045
</ConsignmentNumber>
<ConsignmentDate>
        19/03/2017
</ConsignmentDate>
<ReferenceNumber>
        11122602-2
</ReferenceNumber>
<PredictionTime>
        11:20:00 - 12:20:00
</PredictionTime>
<TrackingHistory>
        <EventDetail>
                <EventDate>
                        19/03/2017
                </EventDate>
                <EventTime>
                        18:57:56
                </EventTime>
                <EventType>
                        86
                </EventType>
                <EventTypeName>
                        Order Received
                </EventTypeName>
                <EventDepot>
                        500
                </EventDepot>
                <EventDepotName>
```

```xml
            HEAD OFFICE
        </EventDepotName>
        <ParcelNo>
            1
        </ParcelNo>
    </EventDetail>
    <EventDetail>
        <EventDate>
            19/03/2017
        </EventDate>
        <EventTime>
            21:30:55
        </EventTime>
        <EventType>
            10
        </EventType>
        <EventTypeName>
            Received into HUB
        </EventTypeName>
        <EventDepot>
            500
        </EventDepot>
        <EventDepotName>
            HEAD OFFICE
        </EventDepotName>
        <ParcelNo>
            1
        </ParcelNo>
    </EventDetail>
    <EventDetail>
        <EventDate>
            19/03/2017
```

```xml
            </EventDate>
            <EventTime>
                08:46:52
            </EventTime>
            <EventType>
                40
            </EventType>
            <EventTypeName>
                Out for Delivery
            </EventTypeName>
            <EventDepot>
                4
            </EventDepot>
            <EventDepotName>
                DUBLIN SOUTH EAST
            </EventDepotName>
            <ParcelNo>
                1
            </ParcelNo>
        </EventDetail>
        <EventDetail>
            <EventDate>
                19/03/2017
            </EventDate>
            <EventTime>
                10:50:13
            </EventTime>
            <EventType>
                60
            </EventType>
            <EventTypeName>
                Delivered
```

```xml
                        </EventTypeName>
                        <EventDepot>
                            4
                        </EventDepot>
                        <EventDepotName>
                            DUBLIN SOUTH EAST
                        </EventDepotName>
                        <ParcelNo>
                            1
                        </ParcelNo>
                    </EventDetail>
                </TrackingHistory>
            </TrackingInfo>
</TrackingResponse>
```

Example2: Improper request for 1 consignment (failing on authentication level):

Request message header:

```
Content-Type:  application/xml
Accept:        application/xml
Authorization: Basic WrongHashNumber
```

Request message contents:
```xml
<?xml version="1.0" encoding="utf-8"?>
```

```xml
<TrackingRequest>
    <RequestLine>
        <TrackingNumber>684534576</TrackingNumber>
        <TrackingType>consignment</TrackingType>
    </RequestLine>
</TrackingRequest>
```

Response message http status:
401 Unauthorized

Response message contents: no message provided

Example 3: Proper request for 1 consignment (error on consignment level):

Request message header:

Content-Type: application/xml
Accept: application/xml
Authorization: Basic QWxhZGRpbjpPcGVuU2VzYW1l

Request message contents:
```xml
<?xml version="1.0" encoding="utf-8"?>
```

```xml
<TrackingRequest>
    <RequestLine>
        <TrackingNumber>1234</TrackingNumber>
        <TrackingType>reference</TrackingType>
    </RequestLine>
</TrackingRequest>
```

Response message http status:
200 OK

Response message contents:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<TrackingResponse>
    <TrackingErrorInfo>
        <TrackingNumber>
            1234
        </TrackingNumber>
        <TrackingErrorDetail>
            <ErrorDetailCode>
                ERROR_101
            </ErrorDetailCode>
            <ErrorDetailCodeDesc>
                INVALID TRACKING NO
            </ErrorDetailCodeDesc>
        </TrackingErrorDetail>
    </TrackingErrorInfo>
</TrackingResponse>
```

tracking

HTTP Method: **POST**
Content-Type: **application/xml**
Accept: **application/xml**
Security: **Token authentication**

LIVE ENVIRONMENT URL
https://papi.dpd.ie/common/api/track

REQUEST HEADER

Field	Format	Example	Description
Authorization	Bearer encryptedToken	"Bearer QWxhZGRpbjpPcGVuU2VzYW1l"	The encryptedToken is provided by DPD Ireland Authorisation end point API

REQUEST – XML message

Parameter	Type	M/O	Example	Description
TrackingRequest			XML root node	
RequestLine			XML sub node for TrackingRequest	
TrackingNumber	CHR	M	"683423456"	The tracking number string – depends on type can be: DPD Ireland consignment number (9

				digit), customer reference value (any string) or 14 digit parcel number
TrackingType	CHR	M	"consignment"	Type of tracking number: possible values are: consignment, reference or parcel

RESPONSE – XML message

Field	Type	M/O	Example	Description
TrackingResponse			XML – root node	
TrackingInfo			XML – sub node for TrackingResponse	
TrackingNumber	CHR	M	"687435421"	Tracking number used in Request
ConsignmentNumber	CHR	M	"687435421"	DPD Ireland consignment number
ConsignmentDate	CHR	M	"19/03/2017"	Consignment create date
ReferenceNumber	CHR	M	"Ref123"	Reference number for consignment
PredictionTime	CHR	M	"11:32:00 - 12:32:00"	Predicted delivery time range
ConsignmentService	CHR	O	"OVERNIGHT"	Consignment's service name
ConsignmentParcels	CHR	O	"1"	Number of parcels per consignment
ConsignmentStatus	CHR	O	"OUT FOR DELIVERY"	The current consignment status – name of the last consignment's event
ConsignmentStatusDate	CHR	O	"19/03/2017 09:22:49"	Last consignment's event date and time
DriverName	CHR	O	"David"	Driver name
StopsInfo	CHR	O	"4 stops away"	Information about stops
VanLocationGpsLat	DEC	O	53.416592	Van GPS Latitude
VanLocationGpsLong	DEC	O	-7.9008101	Van GPS Longitude
ConsignmentStatusDescriptive	CHR	O	"Delivered by David, signed for by John Smith, on 2018-03-20 at 12:012:00"	Detailed description for the status - customer long name in Scancode table

PackingAvailable	CHR	O	"true"	true - packing list is available for the consignment (call packingList API to get detailed packing info) otherwise - packing list not available
DeliveryAddress			XML sub node for TrackingInfo	
DeliveryName	CHR	M	"JOHN SMITH"	Delivery name (business name)
AddressLine1	CHR	M	"1 Abbey Road"	Address line 1
AddressLine2	CHR	M	"courtyard"	Address line 2
Town	CHR	M	"Athlone"	Town
County	CHR	M	"Westmeath"	County
PostCode	CHR	M	""	Post code
CountryCode	CHR	M	"372"	Country code
CountryName	CHR	M	"Ireland"	Country name
TrackingHistory			XML sub node for TrackingInfo	
EventDetail			XML sub node for TrackingHistory	
EvenDate	CHR	M	"10/03/2017"	Event date
EvenTime	CHR	M	"12:20:00"	Event time
EvenType	CHR	M	"10"	Event type
EvenTypeName	CHR	M	"Hub scan"	Event name- friendly name from scancode
EvenDepot	CHR	M	"500"	Depot number
EvenDepotName	CHR	M	"Head Office"	Depot name
EventUrl	CHR	O	"https://manage.dpd.ie/Default.aspx"	URL for some extra functionality related to the event
ParcelNo	INT	M	1	Parcel number

ParcelRef	CHR	O	"15501234567891"	GeoPost 14 digit parcel number, or 10 digit UK parcel number or customer parcel reference number
EventId	INT	O	47021	Unique ID for event – can be used to call different API to get an image related to the event
EventElementId	INT	O	1	Unique Id for element(parcel) within event – can be used to call different API to get an image related to the event
EventImageAvailable	LOG	O	true	Flag indicating whether an image is available for all event with same EventID (EventElementId=0)
ElementImageAvailable	LOG	O	false	Flag indicating whether an image is available for this specific Event element (EventID + EventElementId)
TrackingErrorInfo			XML sub node TrackingResponse	
TrackingNumber	CHR	M	"683423456"	TrackingNumber or ReferenceNumber from request message
TrackingErrorDetail			XML sub node for TrackingErrorInfo	
ErrorDetailCode	CHR	M	"ERROR 201"	Error code
ErrorDetailCodeDesc	CHR	M	"YOU ARE NOT AUTHORISED TO SEE THIS DATA"	Error description

Usage examples:

Example1: Proper request for 1 consignment:

Request message header:

```
Content-Type:  application/xml
Accept:        application/xml
Authorization: Bearer 0xA86F1015C3D3024BED9B
```

Request message contents:

```xml
<?xml version="1.0" encoding="utf-8"?>
<TrackingRequest>
     <RequestLine>
          <TrackingNumber>684534576</TrackingNumber>
          <TrackingType>consignment</TrackingType>
     </RequestLine>
</TrackingRequest>
```

Response message http status:
200 OK

Response message contents:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<TrackingResponse>
     <TrackingInfo>
          <TrackingNumber>
```

```xml
      716050045
</TrackingNumber>
<ConsignmentNumber>
      716050045
</ConsignmentNumber>
<ConsignmentDate>
      19/03/2017
</ConsignmentDate>
<ReferenceNumber>
      11122602-2
</ReferenceNumber>
<PredictionTime>
      11:20:00 - 12:20:00
</PredictionTime>
<ConsignmentService>
      Overnight
</ConsignmentService>
<ConsignmentParcels>
      1
</ConsignmentParcels>
<ConsignmentStatus>
      Delivered
</ConsignmentStatus>
<ConsignmentStatusDate>
      20/03/2017 10:50:13
</ConsignmentStatusDate>
<DeliveryAddress>
      <DeliveryName>
            JOHN SMITH
      </DeliveryName>
      <AddressLine1>
            1 BIRD AVENUE
```

```xml
        </AddressLine1>
        <AddressLine2 />
        <Town>
                CLONSKEAGH
        </Town>
        <County>
                DUBLIN
        </County>
        <PostCode />
        <CountryCode>
                372
        </CountryCode>
        <CountryName>
                Ireland
        </CountryName>
<DeliveryAddress>
<TrackingHistory>
    <EventDetail>
            <EventDate>
                    19/03/2017
            </EventDate>
            <EventTime>
                    18:57:56
            </EventTime>
            <EventType>
                    86
            </EventType>
            <EventTypeName>
                    Order Received
            </EventTypeName>
            <EventDepot>
                    500
```

```
            </EventDepot>
            <EventDepotName>
                    HEAD OFFICE
            </EventDepotName>
            <ParcelNo>
                    1
            </ParcelNo>
        </EventDetail>
        <EventDetail>
            <EventDate>
                    19/03/2017
            </EventDate>
            <EventTime>
                    21:30:55
            </EventTime>
            <EventType>
                    10
            </EventType>
            <EventTypeName>
                    Received into HUB
            </EventTypeName>
            <EventDepot>
                    500
            </EventDepot>
            <EventDepotName>
                    HEAD OFFICE
            </EventDepotName>
            <ParcelNo>
                    1
            </ParcelNo>
        </EventDetail>
        <EventDetail>
```

```xml
<EventDate>
    20/03/2017
</EventDate>
<EventTime>
    08:46:52
</EventTime>
<EventType>
    40
</EventType>
<EventTypeName>
    Out for Delivery
</EventTypeName>
<EventDepot>
    4
</EventDepot>
<EventDepotName>
    DUBLIN SOUTH EAST
</EventDepotName>
<ParcelNo>
    1
</ParcelNo>
</EventDetail>
<EventDetail>
<EventDate>
    20/03/2017
</EventDate>
<EventTime>
    10:50:13
</EventTime>
<EventType>
    60
</EventType>
```

```xml
            <EventTypeName>
                Delivered
            </EventTypeName>
            <EventDepot>
                4
            </EventDepot>
            <EventDepotName>
                DUBLIN SOUTH EAST
            </EventDepotName>
            <ParcelNo>
                1
            </ParcelNo>
        </EventDetail>
    </TrackingHistory>
  </TrackingInfo>
</TrackingResponse>
```

Example2: Improper request for 1 consignment (failing on authentication level):

Request message header:

```
Content-Type: application/xml
Accept: application/xml
Authorization: Bearer WrongTokenNumber
```

Request message contents:
```xml
<?xml version="1.0" encoding="utf-8"?>
<TrackingRequest>
    <RequestLine>
        <TrackingNumber>684534576</TrackingNumber>
        <TrackingType>consignment</TrackingType>
    </RequestLine>
</TrackingRequest>
```

Response message http status:
401 Unauthorized

Response message contents: no message provided

Example 3: Proper request for 1 consignment (error on consignment level):

Request message header:

```
Content-Type: application/xml
Accept: application/xml
Authorization: Bearer 0xA86F1015C3D3024BED9B
```

Request message contents:

```xml
<?xml version="1.0" encoding="utf-8"?>
<TrackingRequest>
    <RequestLine>
        <TrackingNumber>1234</TrackingNumber>
        <TrackingType>consignment</TrackingType>
    </RequestLine>
</TrackingRequest>
```

Response message http status:
200 OK

Response message contents:

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<TrackingResponse>
    <TrackingErrorInfo>
        <TrackingNumber>
            71605004533
        </TrackingNumber>
        <TrackingErrorDetail>
            <ErrorDetailCode>
```

```
                ERROR_101
            </ErrorDetailCode>
            <ErrorDetailCodeDesc>
                INVALID TRACKING NO
            </ErrorDetailCodeDesc>
        </TrackingErrorDetail>
    </TrackingErrorInfo>
</TrackingResponse>
```

Appendix A

Request message XSD schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="TrackingRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="RequestLine" maxOccurs="unbounded" minOccurs="0">
          <xs:complexType>
            <xs:sequence>
              <xs:element type="xs:string" name="TrackingNumber"/>
              <xs:element type="xs:string" name="TrackingType"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

Appendix B

Response message XSD schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="TrackingResponse">
        <xs:complexType>
        <xs:sequence>
        <xs:element name="TrackingInfo" maxOccurs="unbounded" minOccurs="0">
        <xs:complexType>
                <xs:sequence>
                <xs:element type="xs:string" name="TrackingNumber" minOccurs="1"/>
                <xs:element type="xs:string" name="ConsignmentNumber" minOccurs="1"/>
                <xs:element type="xs:string" name="ConsignmentDate" minOccurs="1"/>
                <xs:element type="xs:string" name="ReferenceNumber" minOccurs="1"/>
                <xs:element type="xs:string" name="PredictionTime" minOccurs="0"/>
                <xs:element type="xs:string" name="ConsignmentService" minOccurs="1"/>
                <xs:element type="xs:string" name="ConsignmentParcels" minOccurs="1"/>
                <xs:element type="xs:string" name="ConsignmentStatus" minOccurs="1"/>
                <xs:element type="xs:string" name="ConsignmentStatusDate" minOccurs="1"/>
                <xs:element type="xs:string" name="DriverName" minOccurs="0"/>
                <xs:element type="xs:string" name="StopsInfo" minOccurs="0"/>
                <xs:element type="xs:string" name="VanLocationGpsLat" minOccurs="0"/>
                <xs:element type="xs:string" name="VanLocationGpsLong" minOccurs="0"/>
                <xs:element type="xs:string" name="PackingAvailable" minOccurs="0"/>
                <xs:element name="DeliveryAddress" maxOccurs="1" minOccurs="0">
                <xs:complexType>
```

```xml
<xs:sequence>
        <xs:element type="xs:string" name="DeliveryName" minOccurs="1"/>
        <xs:element type="xs:string" name="AddressLine1" minOccurs="1"/>
        <xs:element type="xs:string" name="AddressLine2" minOccurs="1"/>
        <xs:element type="xs:string" name="Town" minOccurs="1"/>
        <xs:element type="xs:string" name="County" minOccurs="1"/>
        <xs:element type="xs:string" name="PostCode" minOccurs="0"/>
        <xs:element type="xs:string" name="CountryCode" minOccurs="1"/>
        <xs:element type="xs:string" name="CountryName"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="TrackingHistory" maxOccurs="unbounded" minOccurs="0">
<xs:complexType>
<xs:sequence>
        <xs:element name="EventDetail" maxOccurs="unbounded" minOccurs="0">
        <xs:complexType>
         <xs:sequence>
           <xs:element type="xs:string" name="EventDate" minOccurs="1"/>
           <xs:element type="xs:string" name="EventTime" minOccurs="1"/>
           <xs:element type="xs:string" name="EventType" minOccurs="1"/>
           <xs:element type="xs:string" name="EventTypeName" minOccurs="1"/>
           <xs:element type="xs:string" name="EventDepot" minOccurs="1"/>
           <xs:element type="xs:string" name="EventDepotName" minOccurs="1"/>
           <xs:element type="xs:string" name="EventURL" minOccurs="0"/>
           <xs:element type="xs:string" name="ParcelNo" minOccurs="1"/>
           <xs:element type="xs:string" name="ParcelRef" minOccurs="0"/>
           <xs:element type="xs:string" name="EventId" minOccurs="0"/>
```

```xml
                <xs:element type="xs:string" name="EventElementId" minOccurs="0"/>
                <xs:element type="xs:string" name="EventImageAvailable" minOccurs="0"/>
                <xs:element type="xs:string" name="ElementImageAvailable" minOccurs="0"/>
              </xs:sequence>
             </xs:complexType>
             </xs:element>
          </xs:sequence>
          </xs:complexType>
          </xs:element>
          </xs:sequence>
       </xs:complexType>
       </xs:element>
       <xs:element name="TrackingErrorInfo" maxOccurs="unbounded" minOccurs="0">
       <xs:complexType>
          <xs:sequence>
          <xs:element type="xs:string" name="TrackingNumber" minOccurs="1"/>
          <xs:element name="TrackingErrorDetail">
          <xs:complexType>
          <xs:sequence>
                 <xs:element type="xs:string" name="ErrorDetailCode" minOccurs="1"/>
                 <xs:element type="xs:string" name="ErrorDetailCodeDesc" minOccurs="1"/>
          </xs:sequence>
          </xs:complexType>
          </xs:element>
          </xs:sequence>
       </xs:complexType>
       </xs:element>
       </xs:sequence>
       </xs:complexType>
  </xs:element>
</xs:schema>
```

packingList

HTTP Method: **POST**
Content-Type: **application/xml**
Accept: **application/xml or application/json**
Security: **Basic or Token authentication**

LIVE ENVIRONMENT URL

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

REQUEST HEADER

Field	Format	Example	Description
Authorization	Basic or Bearer encryptedToken	"Basic QWxhZGRpbjpPcGVuU2VzYW1l"	BASIC - The encryptedToken is provided by DPD Ireland to the user of web service. It's always the same for all calls. BEARER - The encryptedToken is provided by DPD Ireland Authorisation end point API

REQUEST – XML message

Parameter	Type	M/O	Example	Description

PackingRequest	XML root node				
RequestLine	XML sub node for PackingRequest				
TrackingNumber	CHR	M	"683423456"	The tracking number string – depends on type can be: DPD Ireland consignment number (9 digit), customer reference value (any string) or 14 digit parcel number	
TrackingType	CHR	M	"consignment"	Type of tracking number: possible values are: consignment, reference or parcel	

RESPONSE – XML message

Field	Type	M/O	Example	Description
PackingResponse	XML – root node			
PackingInfo	XML – sub node for PackingResponse			
TrackingNumber	CHR	M	"687435421"	Tracking number used in Request
ConsignmentNumber	CHR	M	"687435421"	DPD Ireland consignment number
PackingList	XML – sub node for PackingInfo			
Packing	XML sub node for PackingList			
PackingReferenceNumber	CHR	M	"abc123"	Packing Unique Identifier
ItemCode	CHR	M	"Abc123"	Item unique identifier
Quantity	CHR	M	"1"	Item quantity
ItemDescritpion	CHR	M	"Abc123"	Item additional description
UnitOfMeasure	CHR	M	"Kgs"	Item unit of measure
UserDefinition1	CHR	M	"Abc123"	Item additional information
UserDefinition2	CHR	M	"Xyz321"	Item additional information

PackingErrorInfo			XML sub node for PackingResponse	
TrackingNumber	CHR	M	"683423456"	TrackingNumber from request message
PackingErrorDetail			XML sub node for PackingErrorInfo	
ErrorDetailCode	CHR	M	"ERROR 201"	Error code
ErrorDetailCodeDesc	CHR	M	"YOU ARE NOT AUTHORISED TO SEE THIS DATA"	Error description

Usage examples:

Example1: Proper request for 1 consignment:

Request message header:

```
Content-Type:  application/xml
Accept:        application/xml
Authorization: Basic QWxhZGRpbjpPcGVuU2VzYW1l
```

Request message contents:
```
<?xml version="1.0" encoding="utf-8"?>
```

```xml
<PackingRequest>
    <RequestLine>
        <TrackingNumber>684534576</TrackingNumber>
        <TrackingType>consignment</TrackingType>
    </RequestLine>
</PackingRequest>
```

Response message http status:
200 OK

Response message contents:
```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes" ?>
<PackingResponse>
    <PackingInfo>
        <TrackingNumber>716050045</TrackingNumber>
        <ConsignmentNumber>716050045</ConsignmentNumber>
        <PackingList>
            <Packing>
                <PackingReferenceNumber>abc123</PackingReferenceNumber>
                <ItemCode>Abc123</ItemCode>
                <Quantity>1</Quantity>
                <ItemDescription>Abc123</ItemDescription>
                <UnitOfMeasure>Kgs</UnitOfMeasure>
                <UserDefinition1>Abc123</UserDefinition1>
                <UserDefinition2>Xyz321</UserDefinition2>
            </Packing>
        </Packinglist>
    </PackingInfo>
</PackingResponse>
```

Appendix A

Request message XSD schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="PackingRequest">
    <xs:complexType>
      <xs:sequence>
        <xs:element name="RequestLine" maxOccurs="unbounded" minOccurs="0">
          <xs:complexType>
            <xs:sequence>
              <xs:element type="xs:string" name="TrackingNumber"/>
              <xs:element type="xs:string" name="TrackingType"/>
            </xs:sequence>
          </xs:complexType>
        </xs:element>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

Appendix B

Response message XSD schema

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema attributeFormDefault="unqualified" elementFormDefault="qualified"
xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="PackingResponse">
        <xs:complexType>
        <xs:sequence>
        <xs:element name="PackingInfo" maxOccurs="unbounded" minOccurs="0">
        <xs:complexType>
                <xs:sequence>
                <xs:element type="xs:string" name="TrackingNumber" minOccurs="1"/>
                <xs:element type="xs:string" name="ConsignmentNumber" minOccurs="1"/>
                <xs:element name="PackingList" maxOccurs="unbounded" minOccurs="0">
                <xs:complexType>
                <xs:sequence>
                    <xs:element name="Packing" maxOccurs="unbounded" minOccurs="0" >
                     <xs:complexType>
                     <xs:sequence>
                            <xs:element name="PackingReferenceNumber" type="xs:string" />
                            <xs:element name="ItemCode" type="xs:string" />
                            <xs:element name="Quantity" type="xs:string" />
                            <xs:element name="ItemDescription" type="xs:string" />
                            <xs:element name="UnitOfMeasure" type="xs:string" />
                            <xs:element name="UserDefinition1" type="xs:string" />
                            <xs:element name="UserDefinition2" type="xs:string" />
                     </xs:sequence>
                     </xs:complexType>
                    </xs:element>
```

```xml
                </xs:sequence>
                </xs:complexType>
            </xs:element>
        </xs:sequence>
    </xs:complexType>
    </xs:element>
    <xs:element name="PackingErrorInfo" maxOccurs="unbounded" minOccurs="0">
    <xs:complexType>
        <xs:sequence>
        <xs:element type="xs:string" name="TrackingNumber" minOccurs="1"/>
        <xs:element name="PackingErrorDetail">
        <xs:complexType>
        <xs:sequence>
                <xs:element type="xs:string" name="ErrorDetailCode" minOccurs="1"/>
                <xs:element type="xs:string" name="ErrorDetailCodeDesc" minOccurs="1"/>
        </xs:sequence>
        </xs:complexType>
        </xs:element>
        </xs:sequence>
    </xs:complexType>
    </xs:element>
    </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```