

# DHL EXPRESS GLOBAL LABEL SERVICE

## GLS TECHNICAL REFERENCE

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## DOCUMENT CONTROL

### REVISION HISTORY:

Version	Release Date	Comments
0.7	01/12/2015	Initial Version
0.8	14/05/2018	Update to include version numbering, customer owned segment, customer logo and barcode, Dangerous Goods & invoices.
0.9	03/01/2019	Completed missing data types and length restrictions, added invoice section, added endpoints, added base64 String handling, SOAP UI Testing, License Plates, Symbologies and Barcodes. New DHL Template. Adapting to review comments
1.0	09/04/2019	Added missing COMMAND elements, Template IDs, adaption to review feedback
1.1	11/04/2019	Adapted Reference Data sheet and chapter 10 layout
1.2	19-12-2019	Font changed to Delivery

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## **AUDIENCE**

This document is intended to serve as a guide to assist DHL customers and third party developers during the integration development process. The primary audience of this document is intended to be a trading partner's technical resources and internal DHL EDI support staff.

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## 1. INTRODUCTION

DHL's Global Label Service is designed to greatly simplify the process of creating shipping labels and other documentation required for shipping.

It is a web-service based tool, available in both "Online" (calls are made to DHL's servers) or "Offline" mode (calls are made to a small web server hosted within your own network).

A high-level overview of GLS and details of the installation process for the "Offline" tool are available in document "GLS\_CF\_GLS Offline Installation Guide".

If you have the capability of using the "Online" service, then it may be that one of our web service offerings might suit your needs better, please discuss with your DHL technical contact.

## 2. OVERVIEW OF THE SHIPMENT CREATION PROCESS

The Shipment Creation process can usually be described as 3 high level steps, below:

### 1. Product and Service availability checks:

- a. Address validity check – this answers the question “Does DHL collect and deliver to the sender and receiver address I wish to ship between?”
- b. Product & Service availability – “Which DHL Products (e.g. close of business, pre-9, pre-12, dutiable, non-dutiable) and Services (e.g. Saturday Delivery) are available for my shipment?”

### 2. Label Production:

- a. Waybill and License Plate allocation
- b. DHL-specific information lookup - a shipping label requires some DHL-specific information to be printed on it, (e.g., DHL facility codes, DHL product codes, etc.)
- c. Label Rendering – turning the label data into the correct format and size so it can be printed. Examples are pdf format, or label printer specific formats, such as Zebra or Eltron.

### 3. Data Exchange:

- a. Transmission of shipment data to DHL
- b. Receipt of tracking data from DHL

The current release of GLS offers automation of points 2b and 2c. This can be accessed as separate operations or combined into a single call.

For reference, future releases may also allow web service lookups for points 1a and 1b, as well as point 2a.

Another key functionality of GLS is the ability to perform “Address Mapping”. Address Mapping allows the individual parts of an address to be specified (street number, street name, building name, etc.); the software will then use these values to construct a correctly formatted address based on the country.

Without Address Mapping the software will simply use the address lines (up to 7) that you provide.

The later sections of the document deal with specific scenarios:

- Full Data Lookup – 2b in isolation
- Full Data Lookup and Render – 2b and 2c combined, no address mapping
- Full Data Lookup and Render with Address Mapping – 2b and 2c combined with address mapping

On top of the label, also commercial invoices can get rendered by GLS. This will be described at the end of the document.

The appendix contains sample requests and further explanations and help topics to onboard to the DHL global label service.

### 3. CONCEPTS

GLS can operate in several different modes (e.g. Data Lookup, full label render, lookup and label render, etc.).

**1:** The same request message is used for all types of operation; the content of the message defines which operations will take place.

**2:** The structure of the request message is very generic – there are no specific fields for data values (e.g. waybill number, etc.); instead data values are indicated using “key / value” pairs.

Example – typically a web service call might use this format to indicate a waybill number:

```
<Airwaybill>1234567890</Airwaybill>
```

In GLS this would be specified as:

```
<Field Name="SHIPMENT_ID" Value="1234567890"/>
```

This allows GLS to be highly extensible without requiring changes to the underlying schema each time new functionality is added.

**3:** For lists of values, this structure is used:

```
<FieldList Name="HANDLING_FEATURE">
  <Map>
    <Entry Key="CODE_ON_LABEL" Value="DTP" />
    <Entry Key="SERVICE_HANDLING_SORT_CODE" Value="0" />
    <Entry Key="NUMBER" Value="11" />
  </Map>
  <Map>
    <Entry Key="CODE_ON_LABEL" Value="C" />
    <Entry Key="SERVICE_HANDLING_SORT_CODE" Value="1" />
    <Entry Key="NUMBER" Value="1" />
  </Map>
</FieldList>
```

- The <FieldList> “Name” value indicates the type of the list (“HANDLING\_FEATURE” is this example).
- The <Map> element can contain one or more <Entry> elements, depending on the type of the list.
- The <Entry> elements use the same “key / value” structure used as in the Field element in the main body of the message.

## 4. STRUCTURE

### A GLS Request contains up to 4 main sections:

- Header – mandatory, contains information about the calling application
- Command – this section is used to tell GLS what to do
- Data – the data for the command is provided here
- Document – if any rendering will take place, this section is used to define what formats and templates the output should be in.

### A GLS Response contains up to 5 main sections:

- Header
- Command
- Message – zero or more warning or error messages
- Data
- PrintDocument – zero or more - the rendered documents appear in this section. They are represented in Base64 encoding.

To test the service and make your first steps with the GLS you can connect to this endpoint:

**Test endpoint:**

<https://wsbexpress.dhl.com/sndpt/DocumentRendering>

**Test WSDL:**

<https://wsbexpress.dhl.com/sndpt/DocumentRendering?wsdl>

Please reach out to your DHL contact to get credentials to use the service.

After successful testing and implementation of the request message creation, you can get access to the production environment. Please also liaise with your DHL contact to plan the go live.

**Production endpoint:**

<https://wsbexpress.dhl.com/gbl/DocumentRendering>

**Production WSDL:**

<https://wsbexpress.dhl.com/gbl/DocumentRendering?wsdl>



## 5. SCENARIO 1 – FULL DATA LOOKUP

See attached template which demonstrates the structure and content of a full data lookup. Note that in terms of shipment data only 6 fields need to be provided.

If a value in the template is not mentioned here, then it will be a static value and the value from the template should be used.

A code sample can be found in section 12.1 of the document.

### 5.1 INPUT VALUES

Section / Field	Mandatory /Optional	Value constraints	Comments	Example value
<b>Hdr</b>				
No	O	10 INT	Local sequence number generated by client. This is useful to correlate back the response message produced in asynchronous mode.	1
Dtm	O		Date and time that the message was generated.	2010-06-30T09:30:47.OZ
GmtOff	O		The GMT Offset of the message generation date and time.	8.0
<b>Command</b>				
LOOKUP	M	1 AN	Determines the type of lookup that is done by GLS. In this case we would use value="3" for a full data lookup.	Value="Y"- Label Request with Lookup Value="N"- Label Request without Lookup Value="3"- Lookup Transport Label Data Request Value="5"- Lookup Origin/Destination Code Value="6"- Lookup Outbound Sort Code

				Value="7"- Lookup Inbound Sort Code
<b>Data</b>				
ORG_COUNTRY_CODE	M	2 AN	The 2-letter ISO 3166 country code of the origin address.	NL – The Netherlands SG - Singapore
ORG_POSTCODE	M	12 AN	The postcode of the origin address. If the origin country does not support postcodes (e.g. Ireland), do not include this element.	1601 1118LD SL3 0BB
ORG_CITY_NAME	O	45 TEXT	The city name of the origin address.	Amsterdam
DEST_COUNTRY_CODE	M	2 AN	The 2-letter ISO 3166 country code of the destination address.	NL – The Netherlands SG – Singapore
DEST_POSTCODE	M	12 AN	The postcode of the destination address. If the destination country does not support postcodes (e.g. Ireland), do not include this element.	1601 1118LD SL3 0BB
DEST_CITY_NAME	O	45 TEXT	The city name of the destination address.	Amsterdam Dublin 1
NETWORK_PRODUCT_CODE	M	6 AN	The Global Product Code of the DHL Product you wish to ship on.	P N
SHIPMENT_CALENDAR_DATE	M	YYYY-MM-DD	The date that the shipment will be collected. The date should be in “yyyy-mm-dd” format.	2018-05-14
SERVICE	O	List	This list is used to specify zero or more DHL Services associated with the shipment. (E.g. Duties and Taxes Paid, Insurance, Saturday Delivery, etc.) Include a <Map> entry for each service.	<FieldList Name="SERVICE" > <Map>  </Map> </FieldList>
GLOBAL_SERVICE_CODE	O/M	6 AN	In each <Map/Entry>	<Entry

			element, specify the Service Code. If SERVICE fieldlist is used, GLOBAL_SERVICE_CODE is mandatory.	Key="GLOBAL_SERVICE_CODE" Value="DD" />
--	--	--	--	--

## 5.2 RETURN VALUES

Section / Field	Mandatory /Optional	Value constraints	Comments	Example value
<b>Hdr</b>				
No	O	10 INT	The sequence number used in the request message will appear here. This allows responses to be matched to requests if the tool is being used asynchronously.	
Dtm	O		Date and time information from the request will be repeated here.	2010-06-30T09:30:47.0Z
GmtOff	O		The GMT Offset data from the request will be repeated here.	8.0
<b>Command</b>				
LOOKUP	M	1 AN	The Lookup value from the request will be repeated here.	
<b>Data</b>				
ORG_NETWORK_TYPE	O	2 A	The origin network type	DD=Day Definite TD=Time Definite TH=Third Party
ROUTING_CODE_TEXT	M	30 TEXT	The text of the routing barcode. It will appear under the routing barcode and be encoded in the routing barcode.	AU4131+48000001
CONTENT_VIDEO		1 A	"N" means that the Content Code should	Y

			appear as black text on a white background.  “Y” means that the Content Code should appear as white text on a black background.	
ORG_CITY_NAME	O	45 TEXT	The origin city name from the request will be repeated here.	Amsterdam
ORG_POSTCODE	M	12 AN	The origin postcode from the request will be repeated here.	1601 1118LD SL3 OBB

ORG_COUNTRY_NAME	M	35 TEXT	The origin country name will be determined by GLS from the provided country code.	Belgium
DEST_POSTCODE	M	12 AN	The destination postcode from the request will be repeated here.	1601 1118LD SL3 OBB
DEST_COUNTRY_NAME	M	35 TEXT	The destination country from the request will be repeated here.	Singapore
ORG_FAC_TYPE	O	3 A	The origin facility type will be shown here.	GO - Global Office EC- Service Point DH - Domestic Hub CL- Customer Location TP - Third Party
ROUT_INBOUND	M	4 AN	The Inbound Sort Code.	BGDA  This defaults to a period (.) when no value can be obtained.
ROUTING_CODE_SYMBOLOLOGY	M	3 AN	Routing Code Symbology	]CO
NETWORK_PRODUCT_CODE	O	6 AN	The network product code.	P
SHIPMENT_ID_SYMBOLOLOGY	M	3 AN	Shipment ID symbology.	]A0

ORG_COUNTRY_CODE	O	2 AN	The origin country code is repeated here.	NL – The Netherlands SG – Singapore
DEST_FAC_CODE	M	3 AN	The Facility Code for the shipment's destination – appears in the eye-readable routing section of the label.	BSS
PRODUCT_SORT_CODE	M	2 N	A two-digit product code representing the DHL Product.	48
DEST_SRVA_CODE	M	3 AN	The Service Area code for the shipment's destination – appears in the eye-readable routing section of the label.	BNE
PRODUCT_NAME	M	20 AN	The Product Name that appears at the top of the label.	EXPRESS WORLDWIDE
DEST_COUNTRY_CODE	O	2 AN	The destination country code is repeated here.	NL – The Netherlands SG – Singapore
ORG_FAC_CODE	O	3 AN	The Facility Code for the shipment's origin – appears in the eye-readable routing section of the label.	HSC

ORG_FAC_CODE	O	3 AN	The Facility Code for the shipment's origin – appears in the eye-readable routing section of the label.	HSC
ORG_SRVA_CODE	M	3 AN	The Origin Service Area code – appears in the Sender Address section of the label.	LHR
REF_DATE	O	YYYY-MM-DD	The Global Reference Data tool (REF) date.	2018-05-14
ROUT_OUTBOUND	M	4 AN	The Outbound Sort Code.	CL31  This defaults to a period (.) when no value can be obtained.

DEST_NETWORK_TYPE	O	2 A	Destination network type.	DD=Day Definite TD=Time Definite TH=Third Party
CONTENT_CODE	M	3 A	The Product Content Code that appears at the top of the label.	WPX ECX DOM
ROUTING_CODE_DATA_IDENTIFIER	M	2 AN	The data identifier that will be printed under the routing barcode and will be encoded in the routing barcode.	2L
DEST_FAC_TYPE	O	3 A	The Facility Code for the shipment's destination – appears in the eye-readable routing section of the label.	GO - Global Office EC- Service Point DH - Domestic Hub CL- Customer Location TP - Third Party
HANDLING_FEATURE	A list of entries related to the handling section of the label.			
NUMBER	O	2 N	The codes should appear in number order, lowest to highest.	1
SERVICE_HANDLING_SORT_CODE	O	3 N	Handling Feature Sort Code	001
CODE_ON_LABEL	M	3 AN	The code that will appear on the label. If more than one code is to appear, separate them with "-" (hyphen) marks.	C DTP ICE

### 5.3 ERROR MESSAGE VALUES

Category	Description	Meaning	Correction
<b>Errors</b>			
Error	Invalid postcode format.	<ol style="list-style-type: none"> <li>The format of the postcode you have provided is incorrect for the country.</li> <li>You have provided a postcode for a country that does not use it.</li> <li>The country code you have used is not valid.</li> </ol>	<ol style="list-style-type: none"> <li>Correct the format of the postcode.</li> <li>Remove the postcode element from the request.</li> <li>Correct the country code. Valid codes can be found in the embedded file in chapter 14. Appendix E: DHL Reference Data, sheet DHL Country or Region. Alternatively you can use <a href="https://dct.dhl.com/">https://dct.dhl.com/</a> to check your</li> </ol>

			origin and destination location details.
<b>Warnings</b>			
Warning	Ambiguous postcode (1).	The postcode/city combination you have provided cannot be found.	None required – the system has automatically reverted to using the postcode as the primary lookup method.
Warning	Inbound/Outbound sort code cannot be found.	The sort code information for the label cannot be retrieved.	None required – simply use the values from the return message on the label.
Warning	Last database update was before one month.	Your GLS Offline installation hasn't updated itself in over one month. The routing codes that appear on the label could be out of date which may result in delays to your shipment.	<ol style="list-style-type: none"> <li>1. Ensure the scheduler process is configured correctly.</li> <li>2. Contact your DHL technical support.</li> </ol>

## 6. SCENARIO 2A – DATA LOOKUP AND LABEL RENDER, NO ADDRESS MAPPING

See attached template which demonstrates the structure and content of a data lookup and label render operation, without address mapping.

If a value in the template is not mentioned here, then it will be a static value and the value from the template should be used.

A code sample can be found in section 12.2 of the document.

### 6.1 INPUT VALUES – DATA SECTION


Section / Field	Mandatory /Optional	Value constraints	Comments	Example value
<b>Hdr</b>				
No	O	10 INT	Local sequence number generated by client. This is useful to correlate back the response message produced in asynchronous mode.	1

Dtm	O		Date and time that the message was generated.	2010-06-30T09:30:47.0Z
GmtOff	O		The GMT Offset of the message generation date and time.	8.0
<b>Command</b>				
LOOKUP	M	1 AN	Determines the type of lookup that is done by GLS. In this case we would use value = "Y" for a full data lookup.	Value = "Y"- Label Request with Lookup Value = "N"- Label Request without Lookup Value = "3"- Lookup Transport Label Data Request Value = "5"- Lookup Origin/Destination Code Value = "6"- Lookup Outbound Sort Code Value = "7"- Lookup Inbound Sort Code
DATA_RETURN	M	1 A	Determines if GLS returns lookup data within response XML.	Value = "Y"- Label Request with Data Return in Response XML. Value = "N"- Label Request without Data Return in Response XML (this is the default if no value is provided).
SHIPPER_ADDRESS_MAPPING	O	1 A	Determines if GLS will map the qualified address fields to the address fields of the label per country specific rules or if this is provided by the client	Value = "Y" GLS will map the qualified address fields like country code, Street, post code or city to the address lines on the label to format the addresses according to the country standards.
RECEIVER_ADDRESS_MAPPING	O	1 A	Determines if GLS will map the qualified address fields to the address fields of the label per country specific rules or if this is provided by the client	Value = "N" the address lines are provided by the client and printed on



				the label as passed in.
<b>Data</b>				
ORG_COUNTRY_CODE	M	2 AN	The 2-letter ISO 3166 country code of the origin address.	NL – The Netherlands SG - Singapore
ORG_POSTCODE	M	12 AN	The postcode of the origin address. If the origin country does not support postcodes (e.g. Ireland), do not include this element.	1601 1118LD SL3 OBB
ORG_CITY_NAME	O	45 TEXT	The city name of the origin address.	Amsterdam
DEST_COUNTRY_CODE	M	2 AN	The 2-letter ISO 3166 country code of the destination address.	NL – The Netherlands SG – Singapore
DEST_POSTCODE	M	12 AN	The postcode of the destination address. If the destination country does not support postcodes (e.g. Ireland), do not include this element.	1601 1118LD SL3 OBB
DEST_CITY_NAME	O	45 TEXT	The city name of the destination address.	Amsterdam Dublin 1
NETWORK_PRODUCT_CODE	M	6 AN	The Global Product Code of the DHL Product you wish to ship on.	P N
SHIPMENT_CALENDAR_DATE	M		The date that the shipment will be collected. The date should be in “yyyy-mm-dd” format.	2018-05-14
ADDR_SEND_NAME1	M	45 TEXT	Company name	
ADDR_SEND_NAME2	M	45 TEXT	Shipper Address line 1	
ADDR_SEND_NAME3	M	45 TEXT	Shipper Address line 2	

ADDR_SEND_NAME4	O	45 TEXT	Shipper Address line 3	
ADDR_SEND_NAME5	O	45 TEXT	Shipper Address line 4	
ADDR_SEND_NAME6	O	45 TEXT	Shipper Address line 5	
ADDR_SEND_NAME7	O	45 TEXT	Shipper Address line 6	
SEND_LOGO_BASE64	O	TEXT	Allows you to include a logo in the "From" section of the label. The logo should be Base64 encoded.	
ADDR_SEND_CONTACT	M	30 TEXT	Shipper contact + phone/e-mail.	
ADDR_RECV_NAME1	M	45 TEXT	Company name	
ADDR_RECV_NAME2	M	45 TEXT	Receiver Address line 1	
ADDR_RECV_NAME3	M	45 TEXT	Receiver Address line 2	
ADDR_RECV_NAME4	O	45 TEXT	Receiver Address line 3	
ADDR_RECV_NAME5	O	45 TEXT	Receiver Address line 4	
ADDR_RECV_NAME6	O	45 TEXT	Receiver Address line 5	
ADDR_RECV_NAME7	O	45 TEXT	Receiver Address line 6	
ADDR_RECV_CONTACT1	M	30 TEXT	Receiver contact person	
ADDR_RECV_CONTACT2	O	30 TEXT	Receiver phone number	
ADDR_RECV_CONTACT3	O	30 TEXT	Receiver e-mail address	
APPLICATION_CODE	M	20 TEXT	The name of your shipping application that is producing shipping labels. This field will print on the label and is intended to help you identify the source of a label, if it becomes necessary.	Default is "GLS"
APPLICATION_VERSION	M	7 TEXT	The version number of your shipping application that is producing shipping labels. This field will print on the label and is intended to help you identify the source of a label, if it becomes necessary.	Default is "3.0"



CERTIFICATION_IDENTIFIER	M	10	This is an ID provided to you after your label creation process has been approved by DHL. Please contact your local ESS contact to get your labels verified and certified. Your contact will then provide you a certification number.	Default is "Label non-certified".  <small>2019-04-09 MY Customer APP 2.1 / *00-000000*</small>
SHIPMENT_INFO1	O	30 TEXT	Shipment information, typically used for the shipment reference.	REFERENCE001
SHIPMENT_INFO2	O	30 TEXT	Shipment information, typically used for the shipper account number.	190000000
SHIPMENT_INFO3	O	30 TEXT	Shipment information typically used for the declared value of the shipment in case of a dutiable shipment. Is only displayed on the Waybill Doc.	Customs Value: EUR 12318.23
PICKUP_DATE	M	DATE YYYY-MM-DD	The date that the shipment will be collected. This is only displayed on the Waybill Doc.	2018-05-14
FRT_ACCOUNT_NO	O	9 N	The freight account number, this is only displayed on the Waybill Doc.	190000000
DUTY_SERVICE_IND	O	20 TEXT	This is the DHL payment service indicator (DTU / DTP). This is only displayed on the Waybill Doc.	Service: DTP
DUTY_ACCOUNT_NO	O	20 TEXT	The account number that goes along with the DTP billing service, used to charge duties to. This is only displayed on the Waybill Doc.	960000000
TAXES_ACCOUNT_NO	O	20 TEXT	The account number that goes along with the DTP billing service, used to charge import taxes to. This is only displayed on the Waybill Doc.	960000000
SHIPMENT_WEIGHT	M	8 N	The shipment weight.	6.5
WEIGHT_UOM	M	3 A	The unit of measurement for the shipment & piece weights. Accepted values are KG & LBS.	KG

TOTAL_NO_OF_PIECES	M	2 N	The total number of pieces per shipment.	99
SHIPMENT_ID	M	9 N	The Shipment ID excluding the check digit – should be 9 digits long.	123456789
SHIPMENT_ID_CHECK_DIGIT	M	1 N	The check digit of the Shipment ID. The check digit is calculated using the remainder (or modulus), which is the amount "left over" after performing the division of two integers which do not divide evenly. Example: Shipment ID MOD 7 e.g. 123456789 MOD 7 = 1	1
SHIPMENT_ID_SYMOLOGY	M	3 AN	The shipment ID symbology, default and accepted value is JA0.	JA0
ROUTING_CODE_DATA_IDENTIFIER	M	2 AN	The routing code data identifier. The default and accepted value is 2L.	2L
ROUTING_CODE_SYMOLOGY	M	3 AN	The routing barcode symbology, default and accepted value is "JC0".	JC0
PIECE_CONTENT	O	70 TEXT	Within data segment of request, this will be promoted to shipment content (e.g. will be displayed on all separate piece labels as shipment content).  When rendered beside shipment ID barcode -8 lines, ~25 characters per line.  When printed above waybill barcode 70 characters.	Shipment Content
SERVICE	FieldList, allows adding value added services to the label such as DTP, Insurance etc. <b>For more on DG shipments, see section 6.3. See the embedded reference sheet for DHL service codes in chapter 14 Appendix E: DHL Reference Data. Contact your ESS contact for further questions on the usage and costs of additional services.</b>			<FieldList Name="SERVICE"> <Map>  </Map> </FieldList>
GLOBAL_SERVICE_CODE	O	2 AN	The service code indicating which value-added service to add to the label. For example II, for insurance, DD for DTP.	DTP: <Entry Key="GLOBAL_SERVICE_CODE" Value="DD" />

## 6.2 INPUT VALUES – CUSTOMER SEGMENT ON LABEL

The below fields are all optional and can be used to add customer specific data to the DHL Express transport label. Please note that these fields are to be added within the <Data> Section of the request as well. Sample code can be found in section 12.2.2 of the document.

Section / Field	Mandatory /Optional	Value constraints	Comments	Example value
<b>Data</b>				
SPECIAL_INFO1	O	25 TEXT	Additional customer information, displayed to the right of the shipment ID barcode.	
SPECIAL_INFO2	O	25 TEXT	Additional customer information, displayed to the right of the shipment ID barcode.	
SPECIAL_INFO3	O	25 TEXT	Additional customer information, displayed to the right of the shipment ID barcode.	
SPECIAL_INFO4	O	25 TEXT	Additional customer information, displayed to the right of the shipment ID barcode.	
SPECIAL_INFO5	O	25 TEXT	Additional customer information, displayed to the right of the shipment ID barcode.	
SPECIAL_INFO6	O	25 TEXT	Additional customer information, displayed to the right of the shipment ID barcode.	
SPECIAL_INFO7	O	25 TEXT	Additional customer information, displayed to the right of the shipment ID barcode.	
SPECIAL_INFO8	O	25 TEXT	Additional customer information, displayed to the right of the shipment ID barcode.	
SPECIAL_INFO9	O	25 TEXT	Additional customer information, displayed to the right of the shipment ID barcode.	
CUSTOMER_BARCODE_TYP	O	5 N	Type of barcode used in the customer segment. This can	128

E			be used to add an own internal barcode to the DHL transport label. Default and accepted value is "128".	
CUSTOMER_BARCODE_CODE	O / M	20 TEXT	The value to be embedded in the customer segment barcode. Optional field, but mandatory if CUSTOMER_BARCODE_TYPE is used. Barcode will be displayed below the DHL Express routing barcode.	SO3286979
CUSTOMER_BARCODE_TEXT	O / M	20 TEXT	The text that is displayed along with the customer segment barcode. Optional field, but mandatory if CUSTOMER_BARCODE_TYPE is used. Will be displayed below the customer barcode.	SO3286979
SPECIAL_INFO_COMB_SIDE	O / M	200 TEXT	Will be split automatically into SPECIAL_INFO1-SPECIAL_INFO9, will override and erase SPECIAL_INFO1-9 WT - 9 lines, ~25 characters per line	
SPECIAL_INFO_COMB_ABOVE	O / M	200 TEXT	Will be split automatically into SPECIAL_INFOA1-SPECIAL_INFOA3, will override and erase SPECIAL_INFOA1-3 WT - 3 lines, ~ 75 characters per line	

**IMPORTANT NOTE:** If a customer barcode is to be included, please ensure the TemplateID for the Transport Label is set to "ECOM26\_84CI\_002". This is currently the only template that supports an additional customer barcode.

### 6.3 INPUT VALUES – DANGEROUS GOODS

Please refer to Appendix C for an overview of the ContentIDs to use for Dangerous Goods in your request. Sample code for adding Dangerous Goods information to the label request is available in section 12.2.3.

Section / Field	Mandatory /Optional	Value constraints	Comments	Example value
DANGEROUS_GOODS			FieldList, allows adding IATA required Dangerous Goods information on the label.	<FieldList Name="DANGEROUS

				<pre> _GOODS"&gt; &lt;Map&gt;                                 &lt;/Map&gt; &lt;/FieldList&gt; </pre>
DNG_GDS_CNTN_ID	O/M	3 AN	The ContentID indicating which Dangerous Goods type to add to the label. For example, 901 for Dry Ice. Mandatory for every type of Dangerous Goods shipment.	<pre> &lt;Entry Key="DNG_GDS_CN TN_ID" Value="901" /&gt; </pre>
DNG_GDS_UOM	O/M	3 AN	Used specifically for Dry Ice shipments to indicate the unit of measurement for the net weight of Dry Ice in the shipment. Mandatory for Dry Ice shipments.	<pre> &lt;Entry Key="DNG_GDS_UO M" Value="KG" /&gt; </pre> <p>Values can be KG or LBS.</p>
DNG_GDS_NET_WGT	O/M	3 N	Also used specifically for Dry Ice shipments to indicate the net weight of Dry Ice in the shipment. Mandatory for Dry Ice shipments.	<pre> &lt;Entry Key=" DNG_GDS_NET_WG T" Value="5" /&gt; </pre>
DNG_GDS_UN_CD	O/M	4 AN	Used in case of an Excepted Quantities shipment to indicate the UN Code for the contents of the shipment.	<pre> &lt;Entry Key="DNG_GDS_UN _CD" Value="1189"/&gt; </pre>

## 6.4 INPUT VALUES - TRANSPORT LABEL

The Template element will be repeated, once per piece of the shipment. Data that is specific to each piece like piece id, will be included in the Template\Data section.

Section / Field	Mandatory /Optional	Value constraints	Comments	Example value
<b>Document</b>				

OutputFormat	M	4 AN	The output format of the document; valid values are "PDF", "JPG", "PNG", "EPL2", "ZPL2", "LP2"	PDF
<b>Template</b>				
Type	M	4 AN	Specifies what type of template is to be used for the label. Accepted values are "ECOM" (transport label) and "ARCH" (Waybill Doc).	ECOM
TemplateID	M	4 AN	<p>The specific template to use: "ECOM26_84_001" is the standard label in 8 inches by 4 inches format.</p> <p>Other templates available are            ECOM26_84_001 (10x21 layout label) to be combined with archive label ARCH_8X4            COM26_A4_001 (A4 plain paper layout) to be combined with archive label WAYBILL_DOC_A4_001            ECOM26_A6_001 (10x15 layout label) to be combined with archive label ARCH_6X4</p> <p>More templates are available. Please reach out to your local country ESS contact for details.</p>	ECOM26_84_001
<b>Data</b>				
PIECE_LP	M	35 AN	The piece identifier. Do not include the data identifier.	JD012038742880004961
PIECE_LP_DATA_IDENTIFIER	M	2 AN	The data identifier of the piece id – default and accepted value is "J". Value 00 is used in case an SSCC piece ID range is used by the customer.	J
PIECE_LP_SYMBOLGY	M	3 AN	Values to be used are: "J0" (DHL piece ID range), or "J1" (SSCC piece ID range).	J0



PIECE_SEQ	M	3 AN	The sequence number of the piece in the shipment.	1
PIECE_WEIGHT	O	6 AN	The weight of the piece if known. If unknown, please leave out this field.	2.5 3 205,24
PIECE_CONTENT	O	35 AN	Description of contents of the piece.	Piece Contents
PIECE_REFERENCE	O	250 TEXT	Reference of the piece.	Pce ref: 001

## 6.5 INPUT VALUES - WAYBILL DOC

The Template element will be repeated, once per piece of the shipment. Data that is specific to each piece like piece id, will be included in the Data section.

Section / Field	Mandatory /Optional	Value constraints	Comments	Example value
<b>Document</b>				
OutputFormat	M	4 AN	The output format of the document; valid values are "PDF", "JPG", "PNG", "EPL2", "ZPL2", "LP2"	PDF
<b>Template</b>				
Type	M	4 AN	Specifies what type of template is to be used for the label. Accepted values are "ECOM" (transport label) and "ARCH" (Waybill Doc).	ECOM
TemplateID	M	4 AN	The specific template to use: "ARCH_8X4" is the standard label in 8 inch by 4 inch format.	ARCH_8X4
<b>Data</b>				
PIECE_LP_ARCH_LIST			Fieldlist A list of entries related to the piece identifiers of the shipment. There will be one or more entries. Use following syntax:	<pre>&lt;FieldList Name="PIECE_LP_ARCH_LIST"&gt;   &lt;Map&gt;  &lt;/Map&gt; &lt;/FieldList&gt;</pre>
PIECE_LP	M	35 AN	License Plate List for Archive Doc rendering	<pre>&lt;Entry Key="PIECE_LP" Value="JD012038742880004961"/&gt;</pre>

## 6.6 RETURN VALUES

All the input values above will be returned in the response. Underneath segments that are added into the response are listed:

Section / Field	Mandatory /Optional	Value constraints	Comments	Example value
<b>GLSDocResponse</b>				
Status	O	1 A	Will show up if there are errors or warnings for your request.	Value will be E when an error occurred, W if there were one or more warnings.
<b>Message</b>				
Category	O	Text	Indicates the type of message, will be either Warning or Error.	Warning Error
Description	O	Text	Will show what went wrong in the request that was submitted.	Ambiguous postcode (1).
<b>Data</b>				
ORG_NETWORK_TYPE	O	2 A	Shows the network type for the origin facility.	DD=Day Definite TD=Time Definite TH=Third Party
DEST_NETWORK_TYPE	O	2 A	Shows the network type for the destination facility.	DD=Day Definite TD=Time Definite TH=Third Party
ROUTING_CODE_TEXT	O	30 Text	Will return the text that is contained in the routing barcode.	AU4131+48000001
CONTENT_VIDEO	O	1 A	<p>“N” means that the Content Code should appear as black text on a white background.</p> <p>“Y” means that the Content Code should appear as white text on a black background.</p>	Y N
ORG_COUNTRY_NAME	O	35 Text	Returns the country name based on the	Germany Australia

			country code that was provided in ORG_COUNTRY_CODE in the request.	
DEST_COUNTRY_NAME	O	35 Text	Returns the country name based on the country code that was provided in DEST_COUNTRY_CODE in the request.	Germany Australia

ROUT_INBOUND	O	4 AN	Indicates the inbound sort code based on address information that was provided during lookup.	BGDA
ROUT_OUTBOUND	O	4 AN	Indicates the outbound sort code based on address information that was provided during lookup.	0250
ORG_FAC_CODE	O	3 AN	The origin facility code.	CGN
ORG_SRVA_CODE	O	3 AN	The origin service area code.	CGN
ORG_FAC_TYPE	O	3 A	Indicates the type of facility the shipment was sent from.	GO - Global Office EC- Service Point DH - Domestic Hub CL- Customer Location TP - Third Party SC – Service Center
DEST_FAC_CODE	O	3 AN	The destination facility code.	BSS
DEST_SRVA_CODE	O	3 AN	The destination service area.	BNE
DEST_FAC_TYPE	O	3 A	Indicates the type of facility the shipment will be delivered from/to.	GO - Global Office EC- Service Point DH - Domestic Hub CL- Customer

				Location TP - Third Party SC – Service Center
PRODUCT_SORT_CODE	O	2 N	Part of the routing barcode.	48
PRODUCT_NAME	O	20 AN	Displayed at the top of the label, based on the NETWORK_PRODUCT_CODE that was provided in the request.	EXPRESS WORLDWIDE
CONTENT_CODE	O	3 AN	Displayed at the top of the label, based on the NETWORK_PRODUCT_CODE that was provided in the request.	WPX ECX DOM
REF_DATE	O	DATE YYYY-MM-DD	Based on the SHIPMENT_CALENDAR_DATE	2018-06-30
DANGEROUS_GOODS	FieldList, allows adding IATA required Dangerous Goods information on the label.			<FieldList Name="DANGEROUS_GOODS"> <Map>  </Map> </FieldList>
DNG_GDS_LABL_DSC	O		The IATA required Dangerous Goods description that will be printed on the label, based on the information provided about the shipment in the request.	UN1845 Dry Ice, Net 5 kg
HANDLING_FEATURE	FieldList,data used in routing (handling) the shipment.			<FieldList Name="HANDLING_FEATURE"> <Map>  </Map> </FieldList>
NUMBER	O	3 N	The codes should appear in number order, lowest to highest.	1
SERVICE_HANDLING_SORT_CODE	O	3 N	The value of this segment is used in the routing barcode.	1

CODE_ON_LABEL	0	3 AN	Indicates the code that will be added to the label (is visible on the transport label in the black bar halfway on the label).	C ICE DTP  <i>See appendix C for other possible values.</i>
SERVICE	FieldList, holds service codes & names for added services.			<FieldList Name="SERVICE"> <Map>  </Map> </FieldList>
GLOBAL_SERVICE_CODE	0	6 AN	The code indicating an added service.	DD
GLOBAL_SERVICE_NAME	0	35 Text	The corresponding name for the added service.	Duties & Taxes Paid
<b>PrintDocument</b>				
FileAttach	0	Text	A base64 encoded version of the print document.	-
OutputFormat	0		The output format selected in the request message	PDF

## 6.7 ERROR MESSAGE VALUES

On top of the error and warning messages for the data lookup, these messages can occur.

Category	Description	Meaning	Correction
<b>Errors</b>			
Error	Output format 'XYZ' unknown	You selected an output format is not supported by GLS.	Possible values are PDF, JPG, PNG, EPL2, ZPL2, LP2
<b>Warnings</b>			
Warning	Requested TEMPLATE_ID not found in cache, requested template XYZ, thus default Template will be used, Template ELP_PFI_A4	The template ID you provided is not available in GLS.	The template ID you provided is not available in GLS. Please correct the ID or otherwise liaise with your DHL contact.

## 7. SCENARIO 2B – DATA LOOKUP AND LABEL RENDER, WITH ADDRESS MAPPING

The input values for this scenario are identical to the ones given in section 6, except for the shipper & receiver address details as listed below. While you fill the address lines yourselves in the scenario without address mapping, here the address lines are automatically filled by the dedicated input data. The rendering on the label can be different per country as different address formats can be defined in the DHL reference data.

In place of ADDR\_SEND\_NAME1..7 and ADDR\_RECV\_NAME1..7 include the values below where applicable.

Sample code for this scenario can be found in section 12.3.

### 7.1 INPUT VALUES

Section / Field	Mandatory /Optional	Value constraints	Comments	Example value
<b>Data</b>				
SHIPPER_ADDRESS1	O	45 Text	The company name of the shipper. In case of a B2C shipment, please use the name of the person receiving the shipment here.	DHL Express
SHIPPER_ADDRESS2	O	45 Text	Additional space for shipper information (contact, reference etc). Rendered directly underneath the company name on the label.	
SHIPPER_ADDRESS3	O	45 Text	Additional space for shipper information (contact, reference etc). Rendered directly underneath the company name on the label.	
ORG_BUILDING_NAME	O	45 Text	The shipper building name, this is rendered directly underneath the street & house number, together with ORG_APARTMENT_NAME_NO.	West Apartment Building
ORG_APARTMENT_NAME_NO	O	20 Text	The shipper apartment number or name, this is	Suite 6A

			rendered directly underneath the street & house number, together with ORG_BUILDING_NAME.	
ORG_PROVINCE	0	45 Text	The shipper province (when applicable). Also used for US state codes.	NH
ORG_SUBURB_NAME	0	45 Text	The shipper Suburb, used mostly in locations where there are no postal codes.	NH
ORG_STREET_NAME	0	45 Text	The shipper street name.	Fritz-Erler-Str.
ORG_STREET_NO	0	45 Text	The shipper house number.	6 1021A-1
RECEIVER_ADDRESS1	0	45 Text	The company name of the shipper. In case of a B2C shipment, please use the name of the person receiving the shipment here.	DHL Express
RECEIVER_ADDRESS2	0	45 Text	Additional space for receiver information (contact, reference etc). Rendered directly underneath the company name on the label.	
RECEIVER_ADDRESS3	0	45 Text	Additional space for receiver information (contact, reference etc). Rendered directly underneath the company name on the label.	
DEST_APARTMENT_NAME_NO	0	20 Text	You can use this field to provide "at the attention of" information, or a specific department within a company. Will be rendered directly underneath the company name on the label.	Planning dept.
DEST_BUILDING_NAME	0	45 Text	The receiver building name, this is rendered directly above the street & house number,	West Apartment Building

			together with DEST_SUBURB_NAME.	
DEST_SUBURB_NAME	0	45 Text	The receiver suburb name, this is rendered directly above the street & house number, together with DEST_BUILDING_NAME.	QLD
DEST_STREET_NAME	0	45 Text	The receiver street name.	Delhi Mathura Road
DEST_STREET_NO	0	45 Text	The receiver house number.	12/4

Example visual mapping of the shipper address fields on the label:

<b>From :</b> SHIPPER_ADDRESS1 SHIPPER_ADDRESS2 SHIPPER_ADDRESS3 ORG_STREET_NO ORG_STREET_NAME ORG_BUILDING_NAME ORG_APARTMENT_NAME_NO ORG_CITY_NAME ORG_PROVINCE 1583 United States	<b>Origin:</b> <b>CPH</b>	<b>Contact:</b> ADDR_SEND_CONTACT
--	------------------------------	-----------------------------------

Example visual mapping of the receiver address fields on the label:

<b>To :</b> RECEIVER_ADDRESS1 RECEIVER_ADDRESS2 RECEIVER_ADDRESS3 DEST_BUILDING_NAME DEST_SUBURB_NAME DEST_STREET_NO DEST_STREET_NAME <b>10350 DEST_CITY_NAME</b> <b>France</b>	<b>Contact:</b> ADDR_RECV_CONTACT1 ADDR_RECV_CONTACT2 ADDR_RECV_CONTACT3
---	---

## 7.2 RETURN VALUES

There are no additional returned values for this style of request. Please refer to the return values of section 6.6 and 6.7 for an overview.

## 8. ADDITIONAL COMMAND ATTRIBUTES

On top of the common COMMAND attributes already used (DATA\_RETURN, LOOKUP, SHIPPER and RECEIVER\_ADDRESS\_MAPPING) there are other attributes, which can get used.



Section / Field	Mandatory /Optional	Value constraints	Comments	Example value
<b>Command</b>				
TOBSCO	O	1 AN	TobscO (temporary OB sort code):  Value = "Y" To take in TOBSCO into consideration while doing OB Sort Code lookup result for LOOKUP option = Y, 3, or 6. Value = "N" No reference to TOBSCO (default) while doing OB Sort Code lookup.	N
DCS_LOOKUP	O	1 AN	Destination Control Statement (DCS) Value = "Y" Label Request with DCS lookup  Value = "N" Label Request without DCS lookup (default)	N
ENHANCED_MESSAGE	O	1 AN	Value = "Y" return new enhanced message in response message Value = "N" not return new enhanced message in response message (default)	N

## 8.1 ENHANCED MESSAGE INFORMATION (INFORMATIONAL/WARNING/ERROR)

If enhanced messaging is enabled the response message will provide a more granular response status message.

Response if ENHANCED\_MESSAGE = N:

<Message Category="Warning" Description="Outbound sort code is not found."/>

Response if ENHANCED\_MESSAGE = Y:

<Message Category="Warning" Description="Outbound sort code is not found."/>

```

<RespStatus>
  <Sev>30</Sev>
  <MsgClgd>GLS</MsgClgd>
  <MsgClg>340005</MsgClg>
  <Dsc>Outbound sort code is not found.</Dsc>
  <Dtldsc>Mismatch of origin country code, origin service area code, origin facility code, destination
country code, destination service area code, destination facility code, product content code, shipment
calendar date with DHL's specifications. Please provide data in accordance with DHL's
specifications.</Dtldsc>
</RespStatus>
<RespStatus>
  <Sev>10</Sev>
  <MsgClgd>GLS</MsgClgd>
  <MsgClg>100102</MsgClg>
  <Dsc>Service operation execution finished with warning.</Dsc>
  <Dtldsc>Service operation execution finished with warning.</Dtldsc>
</RespStatus>

```

The new *RespStatus* segment can consists of the following attributes:

Section / Field	Mandatory /Optional	Value constraints	Comments	Example
Sev	Y	2 N	Two-digit severity code 00 – Unknown 10 – for informational message 20 – for harmless but let user to decide type message 30 – for warning message 40 – for minor error message 50 – for critical error message 60 – for fatal error message Note: <ul style="list-style-type: none"> <li>Severity code 10 will be used to report the status of response in addition to current response status to align with standard message implementations. The message in this severity code will always returned as first message in the message list.</li> <li>Severity code 30 will be used to report all the</li> </ul>	10

			<p>current warning messages returned</p> <ul style="list-style-type: none"> <li>Severity code 40 is reserved for future usage (e.g. : partial result)</li> <li>Severity code 50 will be used to report all the current error messages returned</li> </ul>	
MsgClg	Y	6 N	<p>Service-specific error code</p> <p>6-digit structural error code to be used (to align with current error code standard format)</p> <p>The following error code structures will be use: {A}{B}{CCCC}</p> <p>Where A – 1-digit error/warning category code B – 1-digit error/warning subcategory code CCCC - 4-digit detailed error/warning code</p>	100102
MsgClgd	Y		Error message catalogue code. Default to GLS for Document Based Services	GLS
Dsc	Y	128 AN	Short message description.	<i>Service operation execution finished with warning</i>
DtIDsc	Y	1024 AN	More detail message description	<i>Mismatch of origin country code, origin service area code, origin facility code, destination country code, destination service area code, destination facility code,</i>

				<i>product content code, shipment calendar date with DHL's specifications. Please provide data in accordance with DHL's specifications</i>
BOErr	N		Identification of business object.	
BOErr/FldErr	Y		Field Error	
BOErr/FldErr/FldId	N		Identification of field	
BOErr/FldErr/FldOrgVal	N		Field original value as used for the validation.	
BOErr/FldErr/FldOrgVal/FldNm	N		Name of field	
BOErr/FldErr/FldOrgVal/FldXPth	N		XPath to Field	

## 9. SCENARIO 3 – GENERATING COMMERCIAL INVOICES

There are various templates to create a commercial invoice, which is needed for dutiable shipments. Below you find a super set of attributes, which can be used across the templates.

After that table you find a mapping of attributes to the templates from which you can see, which attributes can be used for which template.

### 9.1 INPUT VALUES

Section / Field	Mandatory / Optional	Value Constraint	Comment	Example Value
AWB_NO	0	35	Shipment Id	12345676891
SHIPMENT_ID	0	35	Shipment Id	1234567689
SHIPMENT_ID_CHECK_DIGIT	0	2	Shipment Id Check Digit	1
ADDR_SEND_NAME1	0	45	Shipper Address Name1/ Country specific information (IBTI -CA specific)	XYZ Company
ADDR_SEND_NAME2	0	45	Shipper Address Name2/ Country specific information (IBTI -CA specific)	28 Bright Street

ADDR_SEND_NAME3	0	45	Shipper Address Name3/ Country specific information (IBTI -CA specific)	88000 Kota Kinabalu
ADDR_SEND_NAME4	0	45	Shipper Address Name4	Sabah
ADDR_SEND_NAME5	0	45	Shipper Address Name5	Malaysia
ADDR_SEND_NAME6	0	45	Shipper Address Name6	
ADDR_SEND_NAME7	0	45	Shipper Address Name7	
ADDR_SEND_CONTACT1	0	30	Shipper Contact Line1 (IBTI -EU specific)	Phone: +52743432
ADDR_SEND_CONTACT2	0	30	Shipper Contact Line2 (IBTI -EU specific)	Fax: +529829438
ADDR_SEND_CONTACT3	0	30	Shipper Contact Line3 (IBTI -EU specific)	John Smith
ADDR_RECV_NAME1	M	45	Receiver Address Name1	ABC Company
ADDR_RECV_NAME2	0	45	Receiver Address Name2	Contact Center Research Dept.
ADDR_RECV_NAME3	0	45	Receiver Address Name3	12 Happy Street
ADDR_RECV_NAME4	0	45	Receiver Address Name4	10350 St Flavy
ADDR_RECV_NAME5	0	45	Receiver Address Name5	France
ADDR_RECV_NAME6	0	45	Receiver Address Name6	
ADDR_RECV_NAME7	0	45	Receiver Address Name7	
ADDR_RECV_CONTACT1	0	30	Receiver Contact Line1	Mr. Hills
ADDR_RECV_CONTACT2	0	30	Receiver Contact Line2	s.hills@recalls.com

ADDR_RECV_CONTACT3	0	30	Receiver Contact Line3	0206 920 8765
INV_NUMBER	0	30	Invoice Number	2389830283924
INV_DATE	M	11	Invoice Date	10.01.2019
SHIPMENT_REFNO	0	30	Shipment Reference	0248920438
ADDR_SEND_VATNO	0	30	Sender VAT No.	MY2394892349234
ADDR_RECV_VATNO	0	30	Receiver VAT No. (IBTI -EU specific)	FR232834920943
SHIPMENT_EXP_TYPE	0	30	Type of Export	Permanent Export
SHIPMENT_EXP_REAS	0	30	Reason for Export	Under Warranty
SHIPMENT_EXP_CURR	0	30	Currency Code	EUR
SHIPMENT_EXP_TOT	0	30	Terms of Trade	Ex Works
SHIPMENT_EXP_ORIG	0	30	Product Origin	Germany
SHIPMENT_DRYICE	0	30	Dry Ice Weight	4.5
INVLIN_DESCR1...n	0	50	Full Description of Goods	Laptop
INVLIN_QTY1...n	0	5	Quantity	1
INVLIN_UNITVAL1...n	0	15	Unit Value	300.00
INVLIN_SUBTOTAL1...n	0	15	Subtotal Value	300.00
INVLIN_UNITWEIGHT1...n	0	15	Unit Net Weight	3.74
INVLIN_ORIGIN1...n	0	30	Country of Manufacture / Origin	DE
INVLIN_COMMCODE1...n	0	20	Comm. Code	123456
INVLIN_SUBTOTALVAL1	0	15	Subtotal Value	12.42
INVLIN_GROSSWEIGHT1	0	15	Gross Weight	3.1
INVLIN_NETWEIGHT1	0	15	Net Weight	2.93
INVTOTAL_DECLVAL	0	15	Total Declared Value	300.00
INVTOTAL_QTY	0	5	Total Quantity	1
INVTOTAL_NETWEIGHT	0	15	Total Net Weight	3.74
INVTOTAL_GROSSWEIGHT	0	15	Total Gross Weight	4.1

SHIPMENT_SPECIAL_SERVICES	0		Additional Declaration from customer as required, multi-line field	This is my special requirement
COMP_LOGO_Base64	0		Digital signature Image can get uploaded	Base64 String representation of the image
DTP	0		Terms of Trade	
EXP_REASON	0		Export Reason	
EXP_TYPE	0		Type of Export	
INFO_EN	0		Information Text English	
INFO_ES	0		Information Test Spanish	

Field Name	CUST_INV_A4_001	COMMERCIAL_INVOICE_01	COMMERCIAL_INVOICE_02	COMMERCIAL_INVOICE_03
SHIPMENT_ID	X			
SHIPMENT_ID_CHECK_DIGIT	X			
ADDR_SEND_NAME1	X	X	X	
ADDR_SEND_NAME2	X	X	X	
ADDR_SEND_NAME3	X	X	X	
ADDR_SEND_NAME4	X	X	X	
ADDR_SEND_NAME5	X	X	X	
ADDR_SEND_NAME6	X	X	X	
ADDR_SEND_NAME7	X	X	X	
ADDR_RECV_NAME1	X	X	X	
ADDR_RECV_NAME2	X	X	X	
ADDR_RECV_NAME3	X	X	X	
ADDR_RECV_NAME4	X	X	X	
ADDR_RECV_NAME5	X	X	X	
ADDR_RECV_NAME6	X	X	X	
ADDR_RECV_NAME7	X	X	X	

ADDR_RECV_CONTACT1	X	X	X	
ADDR_RECV_CONTACT2	X	X	X	
ADDR_RECV_CONTACT3	X			
ADDR_SEND_CONTACT1	X	X	X	
ADDR_SEND_CONTACT2	X	X	X	
ADDR_SEND_CONTACT3	X			
INV_NUMBER	X			
INV_DATE	X	X	X	
SHIPMENT_REFNO	X			
ADDR_SEND_VATNO	X	X	X	
ADDR_RECV_VATNO	X	X	X	
SHIPMENT_EXP_TYPE	X			
SHIPMENT_EXP_REAS	X			
SHIPMENT_EXP_CURR	X			
SHIPMENT_EXP_TOT	X			
SHIPMENT_EXP_ORIG	X			
SHIPMENT_DRYICE	X			
INVLINE_DESCR1...n	X	X	X	
INVLINE_QTY1...n	X	X	X	
INVLINE_UNITVAL1...n	X	X	X	
INVLINE_SUBTOTAL1...n	X			
INVLINE_UNITWEIGHT1...n	X			
INVLINE_ORIGIN1...n	X	X	X	
INVLINE_COMMCODE1...n	X	X	X	
INVLINE_SUBTOTALVAL1-8		X	X	
INVTOTAL_DECLVAL	X			
INVTOTAL_QTY	X			
INVTOTAL_NETWEIGHT	X			
INVTOTAL_GROSSWEIGHT	X			
SHIPMENT_SPECIAL_SERVICES	X			
COMP_LOGO_Base64	X			
DTP		X	X	
EXP_REASON		X	X	
EXP_TYPE		X	X	
INFO_EN		X	X	
INFO_ES		X	X	
AWB_NO		X	X	
SHIPMENT_DRYICE	X			

## 9.2 RETURN VALUES

There are no additional returned values for this style of request. Please refer to the return values of section 6.6 and 6.7 for an overview.



## 10. APPENDIX A: LABEL FORMATS AND SECTION GUIDE

### 10.1 10X21CM (4X8") LABEL FORMAT

The default labels size is 10x21cm (or 4x8"). Underneath you will find an example label including a customer logo, customer barcode and the Waybill Doc (which is used for billing and customs purposes by DHL Express). The available templates to use for this size are:

- ECOM26\_84\_001 (default transport label)
- ECOM26\_84CI\_002 (for use with a customer barcode on transport label)
- ARCH\_8X4 (to be used for the Waybill Doc only)

<b>EXPRESS WORLDWIDE</b>		<b>WPX</b>		<b>DHL</b>	
<small>GLS 3.0 / "Label non-certified"</small>					
From : DHL Express Fritz-Erler-Str. 5 53113 Bonn Germany				Origin: <b>CGN</b>	
To : Customer & Company 12/4 Delhi Mathura Road <b>LOGANLEA 4131 QLD</b> <b>Australia</b>				Contact: Mr. Hills s.hills@recalls.com 0206 920 8765	
<b>0250 AU-BNE-BSS BGDA</b>					
<b>C -DTP</b>					
Account No 3929348028340		Date:	Prod/Shpt Weight	Piece	
Ref code 234-234NH-1/34		2018-06-30	3.0/6.5 kg	1/2	
 WAYBILL 23 4567 9291					
 (2L)AU4131+48000001					
 SO3286979					
 (J) JD01 2038 7428 8000 4961					

<b>"WAYBILL DOC"</b>		<b>WPX</b>		<b>DHL</b>	
<small>Not to be attached to package - Hand to Courier 2018-07-02 GLS 3.0 /</small>					
Shipper : DHL Express Fritz-Erler-Str. 5 53113 Bonn Germany				Contact: Mr. Hills s.hills@recalls.com 0206 920 8765	
Receiver : Customer & Company 12/4 Delhi Mathura Road <b>LOGANLEA 4131 QLD</b> <b>Australia</b>				Contact: Mr. Hills s.hills@recalls.com 0206 920 8765	
<b>0250 DE-CGN-CGN AU-BNE-BSSBGDA</b>					
Product Details: [P] EXPRESS WORLDWIDE (48)			Features / Services (Service Code) Duties & Taxes Paid(DD)		
Payer Details FRT A/C No : 999999 Duty : 98989898 Taxes : 73737373					
Shipment Details Account No 3929348028340 Ref code 234-234NH-1/34 Customs Value: EUR 12318.23					
Shipment Content					
Cust Decl Shpt Wgt (UOM) / Dim Wgt (UOM):				Pieces	
6.5 kg				2	
Name (in Capital Letters)		Signature		Date (DDMMYYYY)	
 WAYBILL 23 4567 9291					
License Plates of pieces in shipment JD012038742890004961 JD012038742890008888					
- page 1 of 1 -					

10.2 10X15CM (4X6”) LABEL FORMAT

Using 10x15cm (or 4x6”) as label size is also possible within GLS. Underneath you will see the exact same labels as in section 9.1, rendered at size 10x15cm (4x6”). Please note the use of a customer logo is still possible whereas the use of a customer barcode at this size is **not** possible.

The available template to use for this size is:

- ECOM26\_64\_001 (transport label)
- ARCH\_6X4 (Waybill Doc)

<b>EXPRESS WORLDWIDE</b>		<b>WPX</b>	<b>DHL</b>
From : DHL Express Fritz-Erler-Str. 5 53113 Bonn Germany		Origin: <b>DHL-CGN</b>	
To : Customer & Company 12/4 Delhi Mathura Road <b>LOGANLEA 4131 QLD</b> <b>Australia</b>	Contact: Mr. Hills s.hills@recalls.com 0206 920 8765		
<b>0250 AU-BNE-BSS BGDA</b>		Day Time	
<b>C -DTP</b>			
Account No 3929348028340	Post/Sght Weight	Piece	
Ref code 234-234NH-1/34	<b>3.0/6.5 kg</b>	<b>1/2</b>	
 WAYBILL 23 4567 9291			
 (2L)AU4131+48000001			
 (J) JD01 2038 7428 8000 4961			

<b>*WAYBILL DOC*</b> <small>Not to be attached to package - Hand to Courier</small>		<b>WPX</b>	<b>DHL</b>
Shipper : DHL Express Fritz-Erler-Str. 5 53113 Bonn Germany			
Receiver : Customer & Company 12/4 Delhi Mathura Road <b>LOGANLEA 4131 QLD</b> <b>Australia</b>		Contact: Mr. Hills s.hills@recalls.com 0206 920 8765	
<b>0250 DE-CGN-CGN AU-BNE-BSS BGDA</b>		Day Time	
Product Details: [P] EXPRESS WORLDWIDE (48)		Features / Services (Service Code) Duties & Taxes Paid(DD)	
Payer Details PRT A/C No : 999999 Duty : 98989898 Taxes : 73737373			
Shipment Details Account No 3929348028340 Ref code 234-234NH-1/34 Customs Value: EUR 12318.23 Shipment Content			
Cust Desc Sght Wgt (UOM) / Dim Wgt (UOM): <b>6.5 kg</b>			Pieces <b>2</b>
 WAYBILL 23 4567 9291			
Name (in Capital Letters)		Signature	Date (DD.MM.YYYY)
License Plates of pieces in shipment JD012038742880004961 JD012038742880006888			
- page 1 of 1 -			


### 10.3 A4 LABEL FORMAT

Using A4 as label size is also possible within GLS. Underneath you will see the exact same transport label as in section 9.1 & 9.2, rendered at size A4. Please note the use of a customer logo is still possible whereas the use of a customer barcode at this size is **not** possible. This does include additional instructions for the shipper.

The Waybill Doc is rendered at 10x21xm (8x4”) but made available on A4 size for printing. There’s no difference in layout compared to the regular 10x21cm template.

The available template to use for this size is:

- ECOM26\_A4\_001 (transport label)
- ARCH\_8X4\_A4 (Waybill Doc)

<b>EXPRESS WORLDWIDE WPX</b>		<b>DHL</b>	
<small>100% ORIGINAL DHL SERVICE</small>		Origin: <b>CGN</b>	
From: DHL Express Fritz-Ehrler-Str. 5 53113 Bonn Germany		To: Customer & Company 12/4 Delhi Mathura Road LOGANLEA 4131 QLD Australia	
Contact: Mr. Hils a.hils@dhl.com 0203 423 0165		Day: Time	
<b>C -DTP</b>		<b>0250 AU-BNE-BSS BGDA</b>	
Account No 3929349028340		Post/Net Weight <b>3.0/6.5 kg 1/2</b>	
Ref code 234-234NH-104		Please Reference: - 1	
			
		WAYBILL 23 4567 9291	
			
		(2L)AU131+49000001	
			
		(J) -DD112038 7428 8000 4851	

#Fold here. Affix to package using DHL plastic pouch. #

Issued by:

Date:

Time:

Unless otherwise agreed in writing, I/we agree that DHL's terms and Conditions of carriage are all the terms of the contract between me/us and DHL and such Terms and Conditions and, where applicable, the Warsaw Convention limits and/or excludes DHL's liability for loss, damage or delay and this shipment does not contain cash or dangerous goods.

I confirm that this shipment does not contain any items from the list of prohibited items displayed in the DHL Servicepoint, or of the following: Dangerous goods, haz. or comb. mats, Antiques, Playing cards, Human remains, including ashes, Firearms, parts thereof & ammunition, Animals, Currency, Bullion, Asbestos, Pornography, Narcotics: illegal, Precious metals & stones, Gambling devices, Jewellery, Furs.

DHL Express reserves the right to open and examine this item at any DHL location and at any time for security and/or customs reasons.

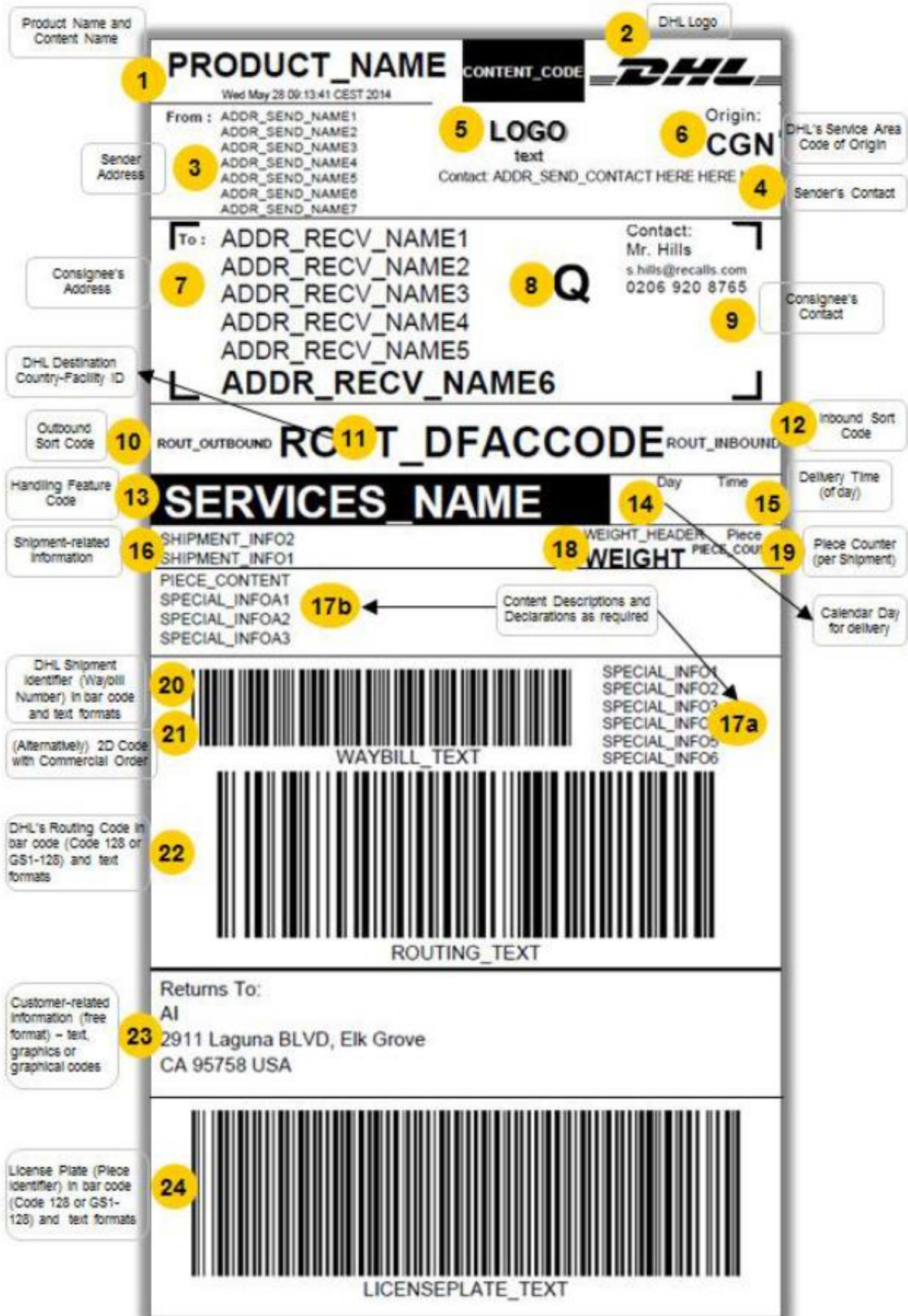
Local duties and taxes may be applied at the destination country.

Servicepoint agent

Signature Customer

Affix to package

10.4 LABEL LAYOUT & SECTION GUIDE



11. APPENDIX B: INVOICE FORMATS

11.1 COMMERCIAL\_INVOICE\_01

<b>Shipper / Remitente</b> XYZ Company 28 Bright Street 88000 Kota Kinabalu Sabah Malaysia ADDR_SEND_NAME6 ADDR_SEND_NAME7  Phone: +52743432 Fax: +529829438  <b>Tax ID / VAT No.</b> MY2394892349234			<b>COMMERCIAL INVOICE FACTURA COMERCIAL</b>				
<b>Consignee / Consignatario</b> ABC Company Contact Center Research Dept. 12 Happy Street 10350 St Flavy France ADDR_RECV_NAME6 ADDR_RECV_NAME7  Mr. Hills s.hills@recalls.com  <b>Tax ID / VAT No.</b> FR232834920943			<b>Date / Fecha</b> 10.01.2019  <b>Waybill Number:</b> 1234567891  <b>Terms Of Trade / Término de Negociación:</b> Ex Works  <b>Type of Export / Tipo de Exportación:</b> Permanent Export  <b>Reason for Export / Razón de Exportación</b> Under Warranty				
Full Description of Goods Completa descripción del producto	Commodity Code - HS Code / Código de Mercancia - Código HS	Number of Samples / Número de Muestras [pc]	Value / Valor [USD]	Total Value / Valor Total [USD]	Net Weight / Peso Neto [kg]	Gross Weight / Peso bruto [kg]	Country of Origin / País de Origen
Laptops	123654	2	10.00	20.00	4.3	4.4	Hungary
Power Supply	543432	2	13.00	26.00	2.3	2.4	Germany
<p>To whom it may concern:                  This package contains human specimens (Human Blood samples, urine and/or tissue biological substances for testing in a clinical laboratory UN3373 CATB) frozen, packed in 4 kg of dry ice. Human material that was neither inoculated with nor exposed for infections agents of agricultural concern, including zoonotic agents; the material contains no animal or non-human primate material and is not of tissue cultural origin) These specimens are for medical laboratory testing purposes and for research use only in conjunctions with pharmaceutical study.</p> <p>A quien Pueda interesarle:                  Este paquete contiene muestras biológicas de pacientes (sangre, orina o sustancias biológicas para estudios clínicos de laboratorio UN3373 CATB) congelados y empacados en 4 kilos de hielo seco. Material Humano que no ha sido inoculado ni expuesto a agentes infecciones, incluido agentes agrícolas o zoo noticos; el material no contiene agentes animales o no-humanos y no tiene orígenes de enfermedades en cultivo. Los especímenes son para propósitos de investigación y análisis de laboratorio para investigación y uso de estudios farmacéuticos.</p> <p>Sincerely, Cordialmente,</p> <p style="text-align: right;">Print Investigator's name/title and identification number or apply official seal here - Nombre del Investigador / Título y Numero identificación o sello oficial</p>							
<p>_____</p> <p>_____</p> <p>_____</p>							
<p>please print in black ink only</p>							

11.2 CUST\_INV\_A4\_001

Sender:  
 XYZ Company  
 28 Bright Street  
 88000 Kota Kinabalu  
 Sabah  
 Malaysia  
 ADDR\_SEND\_NAME6  
 ADDR\_SEND\_NAME7

Phone: +52743432  
 Fax: +529829438  
 John Smith

Receiver:  
 ABC Company  
 Contact Center Research Dept.  
 12 Happy Street  
 10350 St Flavy  
 France  
 ADDR\_RECV\_NAME6  
 ADDR\_RECV\_NAME7  
 Mr. Hills  
 s.hills@recalls.com  
 0206 920 8765

Date: 10.01.2019  
 Invoice Number: 2389830283924  
 Shipment Reference: 0248920438  
 Sender's VAT No: MY2394892349234  
 Receiver's VAT No: FR232834920943  
 Dry Ice Weight: 4.5

Airwaybill Number: WAYBILL 12 3456 7891

Full Description of Goods	Qty	Unit Value	Subtotal Value	Unit Net Weight	Country of Manufacture / Origin	Comm. Code
Laptop	1	780.00	780.00	4.60	China	AB3214
Power Supply	2	13.00	26.00	1.40	Taiwan	TAJU24
<b>Total Declared Value: 806.00 EUR</b>			Total Net Weight: 7.4 kg			
Total Quantity: 3			Total Gross Weight: 7.6 kg			

Type of Export            Permanent Export            Currency Code            EUR  
 Reason for Export        Under Warranty            Terms of Trade            Ex Works

SHIPMENT\_SPECIAL\_SERVICES: More text can be placed here

I/We hereby certify that the information on this Invoice is true and correct and that the contents of this shipment are as stated above.  
 The exporter of the products covered by this Invoice declares that, except where otherwise clearly indicated, these products are of Germany preferential origin.

Signature:

Position in Company:

Company Stamp:

## 12. APPENDIX C: CODE SAMPLES

### 12.1 FULL DATA LOOKUP

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:gl="http://www.dhl.com/GLS/GLSDoc">
  <soapenv:Header/>
  <soapenv:Body>
    <gl:GLSDocRequest
      xsi:schemaLocation="http://www.dhl.com/GLS/GLSDoc GLSDoc.xsd"
      xmlns:gl="http://www.dhl.com/GLS/GLSDoc"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

      <Hdr Ver="1.0" No="1" Dtm="2018-06-30T09:30:47.0Z" GmtOff="1.0">
        <Sndr />
      </Hdr>

      <Command>
        <Field Name="LOOKUP" Value="3"/>
      </Command>

      <Data>
        <Field Name="ORG_COUNTRY_CODE" Value="GB" />
        <Field Name="ORG_POSTCODE" Value="TW4 6JS" />
        <Field Name="ORG_CITY_NAME" Value="Hounslow" />
        <Field Name="DEST_COUNTRY_CODE" Value="AU" />
        <Field Name="DEST_POSTCODE" Value="4131" />
        <Field Name="DEST_CITY_NAME" Value="LOGANLEA" />
        <Field Name="NETWORK_PRODUCT_CODE" Value="E" />
        <Field Name="SHIPMENT_CALENDAR_DATE" Value="2018-06-30" />
        <FieldList Name="SERVICE" >
          <Map>
            <Entry Key="GLOBAL_SERVICE_CODE" Value="DD" />
          </Map>
        </FieldList>
      </Data>
    </gl:GLSDocRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

### 12.2 DATA LOOKUP AND LABEL RENDER, NO ADDRESS MAPPING

#### 12.2.1 DATA LOOKUP AND LABEL RENDER, NO ADDRESS MAPPING

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <gl:GLSDocRequest xmlns:gl="http://www.dhl.com/GLS/GLSDoc">
      <Hdr Ver="1.0" No="1" Dtm="2018-06-30T09:30:47.0Z" GmtOff="2.0">
        <Sndr/>
      </Hdr>
      <Command>
        <Field Name="LOOKUP" Value="Y"/>
        <Field Name="DATA_RETURN" Value="Y"/>
        <Field Name="SHIPPER_ADDRESS_MAPPING" Value="N"/>
        <Field Name="RECEIVER_ADDRESS_MAPPING" Value="N"/>
      </Command>
      <Data>
        <!--Render information-->
        <Field Name="APPLICATION_CODE" Value="MY Customer APP"/>
        <Field Name="APPLICATION_VERSION" Value="2.1"/>
        <Field Name="CERTIFICATION_IDENTIFIER" Value="00-000000"/>
        <!--Fields used for lookup.-->
        <Field Name="ORG_COUNTRY_CODE" Value="DE"/>
        <Field Name="ORG_POSTCODE" Value="53113"/>
        <Field Name="DEST_COUNTRY_CODE" Value="AU"/>
        <Field Name="DEST_POSTCODE" Value="4131"/>
        <Field Name="NETWORK_PRODUCT_CODE" Value="P"/>
      </Data>
    </gl:GLSDocRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```

<Field Name="SHIPMENT_CALENDAR_DATE" Value="2018-06-30"/>
<!--Sender Address information - additional to lookup fields above.-->
<Field Name="ADDR_SEND_NAME1" Value="DHL Express"/>
<Field Name="ADDR_SEND_NAME3" Value="Fritz-Erler-Str. 5"/>
<Field Name="ADDR_SEND_NAME6" Value="53113 Bonn"/>
<Field Name="ADDR_SEND_NAME7" Value="Germany"/>
<Field Name="ADDR_SEND_CONTACT" Value="Contact: Mr. Contact +32678944574814"/>
<!--Receiver Address information - additional to lookup fields above.-->
<Field Name="ADDR_RECV_NAME1" Value="Customer & Company"/>
<Field Name="ADDR_RECV_NAME2" Value="Delhi Mathura Road"/>
<Field Name="ADDR_RECV_NAME3" Value="12/4"/>
<Field Name="ADDR_RECV_NAME3" Value="4131 QLD"/>
<Field Name="ADDR_RECV_NAME5" Value="LOGANLEA"/>
<Field Name="ADDR_RECV_NAME7" Value="Australia"/>
<!--Receiver contact details.-->
<Field Name="ADDR_RECV_CONTACT1" Value="Mr. Hills"/>
<Field Name="ADDR_RECV_CONTACT2" Value="s.hills@recalls.com"/>
<Field Name="ADDR_RECV_CONTACT3" Value="0206 920 8765"/>
<!--Payment details.-->
<Field Name="PAYMENT_CODE" Value="Y"/>
<Field Name="FRT_ACCOUNT_NO" Value="FRT A/C No : 999999"/>
<Field Name="DUTY_ACCOUNT_NO" Value="Duty : 98989898"/>
<Field Name="TAXES_ACCOUNT_NO" Value="Taxes : 73737373"/>
<Field Name="DHL_LOGO_FLAG" Value="Y"/>
<!--Shipment information.-->
<Field Name="SHIPMENT_INFO1" Value="Ref code 234-234NH-1/34"/>
<Field Name="SHIPMENT_INFO2" Value="Account No 3929348028340"/>
<Field Name="SHIPMENT_INFO3" Value="Customs Value: EUR 12318.23"/>
<Field Name="PICKUP_DATE" Value="2018-06-30"/>
<Field Name="SHIPMENT_WEIGHT" Value="6.5"/>
<Field Name="WEIGHT_UOM" Value="kg"/>
<Field Name="TOTAL_NO_OF_PIECES" Value="2"/>
<Field Name="PIECE_CONTENT" Value="Shipment Content Test Contents"/>
<!--Shipment ID & Symbology.-->
<Field Name="SHIPMENT_ID" Value="234567929"/>
<Field Name="SHIPMENT_ID_CHECK_DIGIT" Value="1"/>
<Field Name="SHIPMENT_ID_SYMBOLOGY" Value="]A0"/>
<Field Name="ROUTING_CODE_DATA_INDENTIFIER" Value="2L"/>
<Field Name="ROUTING_CODE_SYMBOLOGY" Value="]C0"/>
<!--Non DG VAS information.-->
<FieldList Name="SERVICE">
  <Map>
    <Entry Key="GLOBAL_SERVICE_CODE" Value="DD"/>
  </Map>
</FieldList>
<!--DG information.-->
<FieldList Name="DANGEROUS_GOODS">
  <Map>
    <Entry Key="DNG_GDS_CNTN_ID" Value="901"/>
    <Entry Key="DNG_GDS_UOM" Value="kg"/>
    <Entry Key="DNG_GDS_NET_WGT" Value="5"/>
  </Map>
</FieldList>
</Data>
<Document OutputFormat="PDF">
  <Template Type="ECOM" Templateld="ECOM26_84_001">
    <Data>
      <Field Name="PIECE_LP" Value="JD012038742880004961"/>
      <Field Name="PIECE_LP_DATA_IDENTIFIER" Value="J"/>
      <Field Name="PIECE_LP_SYMBOLOGY" Value="]C0"/>
      <Field Name="PIECE_SEQ" Value="1"/>
      <Field Name="PIECE_WEIGHT" Value="3.0"/>
      <Field Name="PIECE_REFERENCE" Value="Piece Reference - 1"/>
    </Data>
  </Template>
  <Template Type="ECOM" Templateld="ECOM26_84_001">
    <Data>
      <Field Name="PIECE_LP" Value="JD012038742880008888"/>
      <Field Name="PIECE_LP_DATA_IDENTIFIER" Value="2J"/>
      <Field Name="PIECE_LP_SYMBOLOGY" Value="]C0"/>
      <Field Name="PIECE_SEQ" Value="2"/>
      <Field Name="PIECE_WEIGHT" Value="3.5"/>
    </Data>
  </Template>

```



```
<Field Name="PIECE_REFERENCE" Value="Piece Reference - 2"/>
</Data>
</Template>
</Document>
<Document OutputFormat="PDF">
  <Template Type="ARCH" TemplateId="ARCH_8X4">
    <Data>
      <FieldList Name="PIECE_LP_ARCH_LIST">
        <Map>
          <Entry Key="PIECE_LP" Value="JD012038742880004961"/>
        </Map>
        <Map>
          <Entry Key="PIECE_LP" Value="JD012038742880008888"/>
        </Map>
      </FieldList>
    </Data>
  </Template>
</Document>
</gl:GLSDocRequest>
</soapenv:Body>
</soapenv:Envelope>
```

### 12.2.2 CUSTOMER LOGO AND BARCODE

The underneath code can be added to the <Data> section of the request in section 10.2.1 to make use of the customer section on the label. This will allow you to add in your own logo & barcode to the DHL transport label.

To add a customer logo to the label use the below code. The logo will appear in the FROM: section on the label where the shipper address is displayed. The underneath code will add a DHL logo to the label. Please provide a base 64 encoded version of the logo you wish to include:

```
<Field Name="SEND_LOGO_BASE64"
Value="iVBORw0KGgoAAAANSUUEUGAAAI4AAAAUCAMAAABs3vUfAAAAOVBMVEX////WBBHWBBHWBBHW
BBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHWBBHW
KCwwNDW4PCerd/RAAABSk
lEQVR4Xr3WAWU7E1BCF4TDAEVqmlrn/YY0xUZZnQZLG7wBkF/4O4EawIY34UaxRHQBkayJUAaq1TsEKqTj3gslaG/+ZQr+veixRm1J88dba
AcBV
a1xCmx2xJNsNXIMuPoTTWp42+8DASji8aOFDOJ4Lh/Z6clqZNYw+HI6EO+k1E2pCPz0SDpPcSfy4oyZYHYSzqPR7jsRNTMT1cBiPkYoAfB
9y/k
vtO4WzifJ1n+//J4fDTG2Z8K5eLhpwwPYdcIBUrS1PxGOCf6LMV/MkG0p0VQUACNraAGQdkj4/KCvij3DSeD7AI04LMHpKwQGUSaF9s
Ok8AHX
+VgqPHBhZEexkUP6W/Jdfn9oBBu5RE7riPfSOJy6oR8m9Y0nwwzG/ij187oHCwSicmgXURLx7aECH4QQlsl4fhFOigK/8/e6hASAE1204rhr
5AC
/2dTzSdVQhAAAAE1FTkSuQmCC" />
```



To include a customer barcode on the label, please use the below code. The customer barcode will appear below the DHL Express routing barcode.

```
<Field Value="128" Name="CUSTOMER_BARCODE_TYPE"/>
<Field Value="My Cust Barcode" Name="CUSTOMER_BARCODE_CODE"/>
<Field Value="My Cust Barcode" Name="CUSTOMER_BARCODE_TEXT"/>
```



As mentioned in section 6.2, please ensure the TemplateID for the Transport Label is set to "ECOM26\_84CI\_002". This is currently the only template that supports an additional customer barcode.

### 12.2.3 DANGEROUS GOODS

The underneath code can be added to the <Data> section of the request in section 10.2.1 to create a label that contains all IATA required information for a Dangerous Goods shipment. In case multiple types of DG are present in a shipment (for example Dry Ice & Biological Substances), please add each DG type within the DANGEROUS\_GOODS FieldList, but each in their own Map.

For Dry Ice shipments, use below code:

```
<FieldList Name="DANGEROUS_GOODS">
  <Map>
    <Entry Key="DNG_GDS_CNTN_ID" Value="901"/>
    <Entry Key="DNG_GDS_UOM" Value="kg"/>
    <Entry Key="DNG_GDS_NET_WGT" Value="5"/>
  </Map>
</FieldList>
```

For Excepted Quantities shipments, you have to specify the ContentID as well as the UN Code as follows:

```
<FieldList Name="DANGEROUS_GOODS">
  <Map>
    <Entry Key="DNG_GDS_CNTN_ID" Value="E01"/>
    <Entry Key="DNG_GDS_UN_CD" Value="1189"/>
  </Map>
</FieldList>
```

For other types of Dangerous Goods, you can use the following during lookup (where the value would be the ContentID of the requested type of Dangerous Goods):


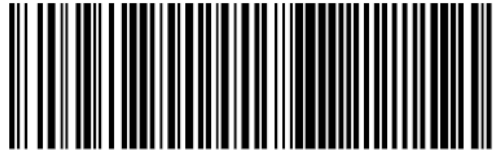


```
<FieldList Name="DANGEROUS_GOODS">
  <Map>
    <Entry Key="DNG_GDS_CNTN_ID" Value="966"/>
  </Map>
</FieldList>
```

Please refer to the embedded file in chapter 14. **Appendix E: DHL Reference Data**, sheet "dangerous goods" for a full overview of ContentID's and Charge Codes for Dangerous Goods shipments.

A shipment with both Dry Ice and Biological Substances (UN3373) would have the following Dangerous Goods FieldList in the <Data> section of the request:

```
<FieldList Name="DANGEROUS_GOODS">
  <Map>
    <Entry Key="DNG_GDS_CNTN_ID" Value="901"/>
    <Entry Key="DNG_GDS_UOM" Value="kg"/>
    <Entry Key="DNG_GDS_NET_WGT" Value="5"/>
  </Map>
  <Map>
    <Entry Key="DNG_GDS_CNTN_ID" Value="650"/>
  </Map>
</FieldList>
```

The above would result in the following label & Waybill Doc:

<b>EXPRESS WORLDWIDE WPX DHL</b> <small>2019-07-02 GLS 3.0 / *Label non-certified*</small>		<b>*WAYBILL DOC*</b> <small>Not to be attached to package - Hand to Courier</small> <small>2018-07-02 GLS 3.0 /</small>	
<b>From :</b> DHL Express Fritz-Erler-Str. 5 53113 Bonn Germany		<b>Origin:</b> <b>CGN</b>	
<b>To :</b> Customer & Company 12/4 Delhi Mathura Road <b>LOGANLEA 4131 QLD</b> <b>Australia</b>		<b>Shipper :</b> DHL Express Fritz-Erler-Str. 5 53113 Bonn Germany	
Contact: Mr. Hills s.hills@recalls.com 0206 920 8765		<b>Receiver :</b> Customer & Company 12/4 Delhi Mathura Road <b>LOGANLEA 4131 QLD</b> <b>Australia</b>	
Account No 3929348028340 Ref code 234-234NH-1/34		Contact: Mr. Hills s.hills@recalls.com 0206 920 8765	
<b>0250 AU-BNE-BSS BGDA</b>		<b>0250 DE-CGN-CGN AU-BNE-BSSBGDA</b>	
<b>C -ICE-RDS</b>		<b>Product Details:</b> [P] EXPRESS WORLDWIDE (48)	
Day Time		<b>Features / Services (Service Code)</b> Biological UN3373(HY) Dry Ice UN1845(HC)	
Pcs/Shpt Weight Piece <b>3.5/6.5 kg 2/2</b>		<b>Payer Details</b> FRT A/C No : 9999999 Duty : 98989898 Taxes : 73737373	
Account No 3929348028340 Ref code 234-234NH-1/34		<b>Shipment Details</b> Account No 3929348028340 Ref code 234-234NH-1/34 Customs Value: EUR 12318.23 Shipment Content Cust Decl Shpt Wgt (UOM) / Dim Wgt (UOM): <b>6.5 kg</b>	
 WAYBILL 23 4567 9291		Pieces <b>2</b>	
 (2L)AU4131+48000001		Name (In Capital Letters) Signature Date (DD.MM.YYYY)	
 (2J)JD01 2038 7428 8000 8888		 WAYBILL 23 4567 9291	
		License Plates of pieces in shipment JD012038742880004961 JD012038742880008888	

### 12.3 DATA LOOKUP AND LABEL RENDER, WITH ADDRESS MAPPING

The code for this request is identical to the code in section 10.2.1, apart from the shipper & receiver address sections. Therefore, only the changed code has been listed below. Keep the request as it is in 10.2.1 (including the fields used for lookup) and only change out the Sender address information and Receiver address information with the code listed below.

Also, set SHIPPER\_ADDRESS\_MAPPING and RECEIVER\_ADDRESS\_MAPPING to "Y" in the command section of the request (on 10.2.1 they were both set to "N" as no address mapping was being used).

```
<!-- Sender Address information - additional to lookup fields above. -->
<Field Name="SHIPPER_ADDRESS1" Value="DHL Express" />
<Field Name="ORG_STREET_NAME" Value="Fritz-Erler-Str." />
```

```
<Field Name="ORG_STREET_NO" Value="5" />
<Field Name="ORG_CITY_NAME" Value="Bonn" />
```

```
<!-- Receiver Address information - additional to lookup fields above. -->
<Field Name="RECEIVER_ADDRESS1" Value="Customer & Company" />
<Field Name="DEST_STREET_NAME" Value="Delhi Mathura Road" />
<Field Name="DEST_STREET_NO" Value="12/4" />
<Field Name="DEST_CITY_NAME" Value="LOGANLEA" />
<Field Name="DEST_PROVINCE" Value="QLD" />
```

For different countries the postal locations type might differ as e.g. no zip code is used in the country. Therefore, the address needs to fill different fields in the address mapping mode.

1. Countries with Zip code and city
 

```
<Field Name="ORG_COUNTRY_CODE" Value="DE"/>
<Field Name="ORG_POSTCODE" Value="53113"/>
<Field Name="ORG_CITY_NAME" Value="BONN"/>
```
2. Countries with city and suburb
 

```
<Field Name="ORG_COUNTRY_CODE" Value="IE"/>
<Field Name="ORG_CITY_NAME" Value="DUBLIN"/>
<Field Name="ORG_SUBURB_NAME" Value="ADELAIDE ROAD"/>
```
3. Countries with city only
 

```
<Field Name="ORG_COUNTRY_CODE" Value="HK"/>
<Field Name="ORG_CITY_NAME" Value="FAIRVIEW PARK"/>
```

This applies to both origin and destination addresses.

## 12.4 INVOICE COMMERCIAL\_INVOICE\_01

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <gls:GLSDocRequest xmlns:gls="http://www.dhl.com/GLS/GLSDoc">
      <Hdr Ver="1.0" No="1" Dtm="2018-06-30T09:30:47.0Z" GmtOff="2.0">
        <Sndr/>
      </Hdr>
      <Command>
        <Field Name="LOOKUP" Value="N"/>
        <Field Name="DATA_RETURN" Value="N"/>
        <Field Name="SHIPPER_ADDRESS_MAPPING" Value="N"/>
        <Field Name="RECEIVER_ADDRESS_MAPPING" Value="N"/>
      </Command>
      <Data>
        <!--Sender Address information-->
        <Field Name="ADDR_SEND_NAME1" Value="XYZ Company"/>
        <Field Name="ADDR_SEND_NAME2" Value="28 Bright Street"/>
        <Field Name="ADDR_SEND_NAME3" Value="88000 Kota Kinabalu"/>
        <Field Name="ADDR_SEND_NAME4" Value="Sabah"/>
        <Field Name="ADDR_SEND_NAME5" Value="Malaysia"/>
        <Field Name="ADDR_SEND_NAME6" Value="ADDR_SEND_NAME6"/>
        <Field Name="ADDR_SEND_NAME7" Value="ADDR_SEND_NAME7"/>
        <Field Name="ADDR_SEND_CONTACT1" Value="Phone: +52743432"/>
        <Field Name="ADDR_SEND_CONTACT2" Value="Fax: +529829438"/>
        <Field Name="ADDR_SEND_VATNO" Value="MY2394892349234"/>
        <!--Receiver Address information-->
        <Field Name="ADDR_RECV_NAME1" Value="ABC Company"/>
        <Field Name="ADDR_RECV_NAME2" Value="Contact Center Research Dept."/>
        <Field Name="ADDR_RECV_NAME3" Value="12 Happy Street"/>
        <Field Name="ADDR_RECV_NAME4" Value="10350 St Flavy"/>
        <Field Name="ADDR_RECV_NAME5" Value="France"/>
        <Field Name="ADDR_RECV_NAME6" Value="ADDR_RECV_NAME6"/>
        <Field Name="ADDR_RECV_NAME7" Value="ADDR_RECV_NAME7"/>
        <Field Name="ADDR_RECV_CONTACT1" Value="Mr. Hills"/>
        <Field Name="ADDR_RECV_CONTACT2" Value="s.hills@recalls.com"/>
      </Data>
    </gls:GLSDocRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

```

<Field Name="ADDR_RECV_VATNO" Value="FR232834920943"/>
<!--Invoice Information-->
<Field Name="INV_DATE" Value="10.01.2019"/>
<Field Name="AWB_NO" Value="1234567891"/>
<Field Name="DTP" Value="Ex Works"/>
<Field Name="EXP_REASON" Value="Under Warranty"/>
<Field Name="EXP_TYPE" Value="Permanent Export"/>
<!--Invoice Items Line 1-->
<Field Name="INVLIN_DESCR1" Value="Laptops"/>
<Field Name="INVLIN_COMMCODE1" Value="123654"/>
<Field Name="INVLIN_QTY1" Value="2"/>
<Field Name="INVLIN_UNITVAL1" Value="10.00"/>
<Field Name="INVLIN_SUBTOTALVAL1" Value="20.00"/>
<Field Name="INVLIN_UNITWEIGHT1" Value="4.00"/>
<Field Name="INVLIN_NETWEIGHT1" Value="4.3"/>
<Field Name="INVLIN_GROSSWEIGHT1" Value="4.4"/>
<Field Name="INVLIN_ORIGIN1" Value="Hungary"/>
<!--Invoice Items Line 2-->
<Field Name="INVLIN_DESCR2" Value="Power Supply"/>
<Field Name="INVLIN_COMMCODE2" Value="543432"/>
<Field Name="INVLIN_QTY2" Value="2"/>
<Field Name="INVLIN_UNITVAL2" Value="13.00"/>
<Field Name="INVLIN_SUBTOTALVAL2" Value="26.00"/>
<Field Name="INVLIN_UNITWEIGHT2" Value="2.00"/>
<Field Name="INVLIN_NETWEIGHT2" Value="2.3"/>
<Field Name="INVLIN_GROSSWEIGHT2" Value="2.4"/>
<Field Name="INVLIN_ORIGIN2" Value="Germany"/>
<!--Predefined text, which can get overridden-->
<!--<Field Name="INFO_EN" Value="INFO TEXT ENGLISH"/>
<Field Name="INFO_ES" Value="INFO TEXT SPANISH"/>-->
</Data>
<Document OutputFormat="PDF">
  <Template Type="PFIV" TemplateId="COMMERCIAL_INVOICE_01"/>
</Document>
</gls:GLSDocRequest>
</soapenv:Body>
</soapenv:Envelope>

```

## 12.5 INVOICE CUST\_INV\_A4\_001

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <gls:GLSDocRequest xmlns:gls="http://www.dhl.com/GLS/GLSDoc">
      <Hdr Ver="1.0" No="1" Dtm="2018-06-30T09:30:47.0Z" GmtOff="2.0">
        <Sndr/>
      </Hdr>
      <Command>
        <Field Name="LOOKUP" Value="N"/>
        <Field Name="DATA_RETURN" Value="N"/>
        <Field Name="SHIPPER_ADDRESS_MAPPING" Value="N"/>
        <Field Name="RECEIVER_ADDRESS_MAPPING" Value="N"/>
      </Command>
      <Data>
        <!--Sender Address information-->
        <Field Name="ADDR_SEND_NAME1" Value="XYZ Company"/>
        <Field Name="ADDR_SEND_NAME2" Value="28 Bright Street"/>
        <Field Name="ADDR_SEND_NAME3" Value="88000 Kota Kinabalu"/>
        <Field Name="ADDR_SEND_NAME4" Value="Sabah"/>
        <Field Name="ADDR_SEND_NAME5" Value="Malaysia"/>
        <Field Name="ADDR_SEND_NAME6" Value="ADDR_SEND_NAME6"/>
        <Field Name="ADDR_SEND_NAME7" Value="ADDR_SEND_NAME7"/>
        <Field Name="ADDR_SEND_CONTACT1" Value="Phone: +52743432"/>
        <Field Name="ADDR_SEND_CONTACT2" Value="Fax: +529829438"/>
        <Field Name="ADDR_SEND_CONTACT3" Value="John Smith"/>
        <!--Receiver Address information-->
        <Field Name="ADDR_RECV_NAME1" Value="ABC Company"/>
        <Field Name="ADDR_RECV_NAME2" Value="Contact Center Research Dept."/>
        <Field Name="ADDR_RECV_NAME3" Value="12 Happy Street"/>
        <Field Name="ADDR_RECV_NAME4" Value="10350 St Flavy"/>
        <Field Name="ADDR_RECV_NAME5" Value="France"/>
      </Data>
    </gls:GLSDocRequest>
  </soapenv:Body>
</soapenv:Envelope>

```

```
<Field Name="ADDR_RECV_NAME6" Value="ADDR_RECV_NAME6"/>
<Field Name="ADDR_RECV_NAME7" Value="ADDR_RECV_NAME7"/>
<Field Name="ADDR_RECV_CONTACT1" Value="Mr. Hills"/>
<Field Name="ADDR_RECV_CONTACT2" Value="s.hills@recalls.com"/>
<Field Name="ADDR_RECV_CONTACT3" Value="0206 920 8765"/>
<!--Invoice information.-->
<Field Name="SHIPMENT_ID" Value="123456789"/>
<Field Name="SHIPMENT_ID_CHECK_DIGIT" Value="1"/>
<Field Name="WEIGHT_UOM" Value="KG"/>
<Field Name="INV_DATE" Value="10.01.2019"/>
<Field Name="INV_NUMBER" Value="2389830283924"/>
<Field Name="SHIPMENT_REFNO" Value="0248920438"/>
<Field Name="ADDR_SEND_VATNO" Value="MY2394892349234"/>
<Field Name="ADDR_RECV_VATNO" Value="FR232834920943"/>
<Field Name="SHIPMENT_DRYICE" Value="4.5"/>
<!--Invoice Items Line 1-->
<Field Name="INVLIN_DESCR1" Value="Laptop"/>
<Field Name="INVLIN_QTY1" Value="1"/>
<Field Name="INVLIN_UNITVAL1" Value="780.00"/>
<Field Name="INVLIN_SUBTOTAL1" Value="780.00"/>
<Field Name="INVLIN_UNITWEIGHT1" Value="4.60"/>
<Field Name="INVLIN_ORIGIN1" Value="China"/>
<Field Name="INVLIN_COMMCODE1" Value="AB3214"/>
<!--Invoice Items Line 2-->
<Field Name="INVLIN_DESCR2" Value="Power Supply"/>
<Field Name="INVLIN_QTY2" Value="2"/>
<Field Name="INVLIN_UNITVAL2" Value="13.00"/>
<Field Name="INVLIN_SUBTOTAL2" Value="26.00"/>
<Field Name="INVLIN_UNITWEIGHT2" Value="1.40"/>
<Field Name="INVLIN_ORIGIN2" Value="Taiwan"/>
<Field Name="INVLIN_COMMCODE2" Value="TAJU24"/>
<!--Invoice Totals-->
<Field Name="INVTOTAL_DECLVAL" Value="806.00 EUR"/>
<Field Name="INVTOTAL_QTY" Value="3"/>
<Field Name="INVTOTAL_NETWEIGHT" Value="7.4 kg"/>
<Field Name="INVTOTAL_GROSSWEIGHT" Value="7.6 kg"/>
<!--Invoice Information-->
<Field Name="SHIPMENT_EXP_REAS" Value="Under Warranty"/>
<Field Name="SHIPMENT_EXP_TYPE" Value="Permanent Export"/>
<Field Name="SHIPMENT_EXP_CURR" Value="EUR"/>
<Field Name="SHIPMENT_EXP_TOT" Value="Ex Works"/>
<Field Name="SHIPMENT_EXP_ORIG" Value="Germany"/>
<Field Name="SHIPMENT_SPECIAL_SERVICES" Value="SHIPMENT_SPECIAL_SERVICES: More text can be placed here"/>
</Data>
<Document OutputFormat="PDF">
  <Template Type="PFIV" TemplateId="CUST_INV_A4_001"/>
</Document>
</gls:GLSDocRequest>
</soapenv:Body>
</soapenv:Envelope>
```

### 13. APPENDIX D: LICENSE PLATES, BARCODES AND SYMBOLOGIES

A barcode (also bar code) is an optical, machine-readable representation of data; the data usually describes something about the object that carries the barcode. Traditional barcodes systematically represent data by varying the widths and spacings of parallel lines and may be referred to as linear or one-dimensional (1D). The mapping between messages and barcodes is called a symbology. The specification of a symbology includes the encoding of the message into bars and spaces, any required start and stop markers, the size of the quiet zone required to be before and after the barcode, and the computation of a checksum.

([Source Wikipedia.org](http://Source.Wikipedia.org)).

The various label templates can hold barcodes for multiple purposes requiring different symbologies as can be seen in the table below.

Barcode on Label	Data Identifier	Barcode Types	Country Code	Symbology Identifier
Waybill, the shipment Identifier	none	<a href="#">Code 39</a>	n/a	]A0
Piece license plate, the unique identifier of a piece	J, 1J, 2J, 3J, 4J, 5J, 6J	<a href="#">Code 128</a>	2 char ISO3166	]C0
	00	<a href="#">GS1-128</a>	3 char ISO3166	]C1
Routing Barcode, information needed for DHL internal routing / sorting	2L	<a href="#">Code 128</a>	n/a	]C0
Customer Barcode, information provided by the customer e.g. Reference Number		Code 128	n/a	Not needed

For each use case you have a code example in the table below.

The data identifier for piece must be set according to the license plate you will use in the request message. Symbology and data identifier always must be matching as shown in the table above. The routing bar code will be automatically built from input attributes like destination country or zip code.

Barcode on Label	Example Request
Waybill	<pre>&lt;Field Name="SHIPMENT_ID" Value="906955985"/&gt; &lt;Field Name="SHIPMENT_ID_CHECK_DIGIT" Value="5"/&gt; &lt;Field Name="SHIPMENT_ID_SYMBOLGY" Value="]A0"/&gt;</pre>
License Plate	<pre>&lt;Field Name="PIECE_LP" Value="JD014600003761632619"/&gt; &lt;Field Name="PIECE_LP_DATA_IDENTIFIER" Value="J"/&gt; &lt;Field Name="PIECE_LP_SYMBOLGY" Value="]C0"/&gt;</pre>
Routing Barcode	<pre>&lt;Field Name="ROUTING_CODE_DATA_IDENTIFIER" Value="2L"/&gt; &lt;Field Name="ROUTING_CODE_SYMBOLGY" Value="]C0"/&gt;</pre>

Customer Barcode	<pre>&lt;Field Value="128" Name="CUSTOMER_BARCODE_TYPE"/&gt; &lt;Field Value="SO3286979" Name="CUSTOMER_BARCODE_CODE"/&gt; &lt;Field Value="SO3286979" Name="CUSTOMER_BARCODE_TEXT"/&gt;</pre>
------------------	--

The below table holds a sample barcode for the sample requests in the table above.

Barcode on Label	Barcode Example
Waybill	 <p>WAYBILL 90 6955 9855</p>
License Plate	 <p>(J) JD01 4600 0037 6163 2619</p>
Routing Barcode	 <p>(2L)NL482100+51000000</p>
Customer Barcode	 <p>SO3286979</p>

If you want to know more about license plates ISO standards and which license plates you can use with DHL, please refer to the attached document:



licenseplate-theisostandardfortransportpac

Examples for license plates and the respective request attributes:



License Plate	Data Identifier	Symbology	Request
JJD0002930001000456	J	]C0	<Field Name="PIECE_LP" Value="JD0002930001000456"/> <Field Name="PIECE_LP_DATA_IDENTIFIER" Value="J"/> <Field Name="PIECE_LP_SYMBOLOGY" Value="]C0"/>
3JSIA1234567712345670001	3J	]C0	<Field Name="PIECE_LP" Value="SIA1234567712345670001"/> <Field Name="PIECE_LP_DATA_IDENTIFIER" Value="3J"/> <Field Name="PIECE_LP_SYMBOLOGY" Value="]C0"/>
00340434264510569376	00	]C1	<Field Name="PIECE_LP" Value="340434264510569376"/> <Field Name="PIECE_LP_DATA_IDENTIFIER" Value="00"/> <Field Name="PIECE_LP_SYMBOLOGY" Value="]C1"/>

Please select the appropriate Date Identifier and Symbology for the barcode creation in the request message, depending on the license plate type you use, using the above logic.

**14. APPENDIX E: DHL REFERENCE DATA**



GLS  
Reference\_Data.xlsx

For special service codes & dangerous goods codes, please reach out to your local ESS support contact.

**15. APPENDIX F: BASE64 STRING HANDLING FOR TESTING**

The label or invoice documents are best returned as PDF for the testing. This will then happen in the form of a base64 String.

Example:

```
<PrintDocument OutputFormat="PDF" FileAttach="JVBERi0xLjQKJeLj..."/>
```

To view the PDF document and verify your result, you need to decode the string to a PDF document. For testing there are various web pages out there, which do the job for you e.g.:

<https://www.opinionatedgeek.com/Codecs/Base64Decoder>

The decode a base64 String follow these steps:

1. Copy the full string of the attribute FileAttach into the text box
2. Press Decode
3. Change the filename ending to pdf as seen in the screenshot
4. Press Download
5. Open the downloaded file to preview the created PDF document

# Base64 Decoder

Decode [base64](#)-encoded text into text or binary, using just your browser. View the decoded value or download it as a file. (You can use our [client-side base64 encoder](#) to try it out!)

This decoder works for both regular and URL-safe encodings.

▶ What is Base 64 Decoding?

Privacy and Confidentiality

This decoder runs entirely in the browser—it does not send any data to any opinionatedgeek.com server for decoding. [Learn more.](#)

Load the base64 data to decode from a file, then press the 'Decode' button:

Browse:

Alternatively, type or paste in the text you want to base64–decode, then press the 'Decode' button.

```
wVAhJ4XIN4QrkK1QwVDAAGgiZnKugH5FmqOCSrxDIBQD9uwpXCmVuZHn0cmVhbQplbmRvYmoKNiAwIG9iago8PC9Db250ZW50cyA0IDAgUi9UeXB1L1BhZ2UvUmVzb3VyY2VzPDwvUHJvY1NldCBbL1BERiAvVGV4dCAvSW1hZ2VCIC9JbWFnZUMgL01tYwdlSV0vWE9iamVjdDw8L1hmMSAxIDAgUj4+Pj4vUGFyZW50IDUgMCSL01lZGlhQm94WzAgMCA3NzkuNTMgODQxLjg5XT4+CmVuZG9iagoyIDAgb2JqCjw8L1N1YnR5cGUvVHlwZTEvVHlwZS9Gb250L0Jhc2VGb250L0hlbHZldGljYS1Cb2xkL0VuY29kaw5nL1dpbkFuc2lFbmNvZGluZz4+CmVuZG9iagoyIDAgb2JqCjw8L1N1YnR5cGUvVHlwZTEvVHlwZS9Gb250L0Jhc2VGb250L0hlbHZldGljYS9FbmNvZGluZy9Xaw5BbnNpRW5jb2Rpbmc+PgplbmRvYmoKMSAwIG9iago8PC9TdWJ0eXB1L0Zvc0vRmlsdGVyL0ZsYXR1RGVjb2RlL1R5cGUvWE9iamVjdC9NYXRYaXggwzEgMCAwIDEgMCAwXS9Gb3JtVHlwZSAXL1Jlcz91cmNlcw8L1Byb2NTZXQgdy9QREYGL1RleHQGL01tYwdlQ1AvSW1hZ2VDIC9JbWFnZU1dL0Zvbnc8PC9GMSAyIDAgUi9GMiAzIDAgUj4+Pj4vQkVjeFswIDAgNzc5LjUzIDg0MS44OV0vTGluZ3RoIDI5MDM+PnN0cmVhbQp4nK1ayXLRhq+8yn6Nk6NdaM3NJC5jKzFdmLJGom2J+OkUi2wRXyMAjCW2MrbzjEHnfwC8/cCEBSBiKyaUrmIBhpf//sGf56FKGY4iB00hsqZTMhkoDT4axfKM1Sw+zfIbR1x1BP8D232Y4ROezj7+EaDH7PAsDwUnC0MPfajljOA4wRiJJAiargqIgmAenXwb+mLMBm3e3v1qvZLcTmLIITg/t6ebv6uUMkzBgYhr6utsRiyAebHDLwfMeYwu/2bANOY0QcRFEbLPBrwc700ZBgjc7/Hqwgwka0GSzw68HO0gc
```

- Automatically generate text rendition
- Automatically generate download link (not good for large files)
- Use simplified (faster) decoder

Decode

## Decode Result

```
%PDF-1.4
%PDF-1.4 0 obj
<</Filter/FlateDecode/Length 51>>stream
x\xbb2P°1q°I□□
v0T0 B□□«□□□□b 剥ndstream
endobj
6 0 obj
<</Contents 4 0 R/Type/Page/Resources<</ProcSet [/PDF /Text /ImageB /ImageC /ImageI]/XObject<</Xf1 1 0 R>>>/Parent 5 0 R/MediaBox[0 0 779.53 841.89]>>
endobj
2 0 obj
```

Click here to download decoded file as: Base64Decoded.pdf

The same webpage also offers a Base64 Encode Option, which you can use in case you need to pass in an image as base64 string, for example a logo.

The encode an image file to a base64 string follow these steps:

1. Select the file to be encoded
2. Press Encode
3. Copy the full text from the text box “Encode Result” and paste it into the appropriate attribute in your request message.

### Base64 Encoder

Encode text or a binary file as [base64](#)-encoded text, using just your browser. View the encoded value or download it as a file. (You can use our [client-side base64 decoder](#) to try it out!)

► What is Base 64 Encoding?

Privacy and Confidentiality  
 This encoder runs entirely in the browser—it does not send any data to any opinionatedgeek.com server for encoding. [Learn more.](#)

Load the data to base64-encode from a file, then press the ‘Encode’ button:

Browse:

Alternatively, type or paste in the text you want to base64-encode, then press the ‘Encode’ button.

- Automatically generate text rendition
- Automatically generate download link (not good for large files)
- Use URL-safe base64
- Use simplified (faster) encoder

### Encode Result

```
/9j/4AAQSkZJRgABAQEAQAcAAAD/4QBaRXhpZgAATU0AKgAAAQgABQMBAAUAAAAAABAAASgMDAAEA
AAABAAAAAFEQAAEAAAAABAQAAAFERAAQAAAAABAAAZ11ESAAQAAAAABAAAZ1gAAAAAAAYagAACxj//b
AEMAAGEBAGEBAGICAgICAgIDBQMDAwMDBgQEAWUHBGcHBWYHBWgJCwkICAOIBWcKDQoKCwwMDAwH
CQ4PDQwOCwwMDP/bAEMBAgICAwMDBgMDBgIBWgMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwMDAwM
DAwMDAwMDAwMDAwMDAwMDAwMDP/AABEIBAB4AvAMBIgACEQEDEQH/xAAFAAABBQEBAAQEAQAA
AAAAAAAAAQIDBAUGBwgJCgv/xAC1EAACAQMDAgQDBQUBAAAAAAX0BAMABBEFEiExQQYTUWEHInEU
MoGroQgJqrHBFVLr8CQzYnKCCQoWfXgZGiUmJygpKjQ1Njc4OTpDREVGR0hJS1NUVVZXWF1aY2R1
ZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOU1ZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcHyMnK
0tPUIdbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAFAQADAQEBAQEBAQEBAAAAAAAAAAQIDBAUG
BwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAnAAQIDEQQFITEGEkFRB2FxEyIygQgUQPghscEIJzNS
8BVictEKFiQ04SxXfXgZGiYnKckqNTY3ODk6Q0RFRkdISUpTVFVWV1hZlWmNkZWZnaGlqc3R1dnd4
...
```

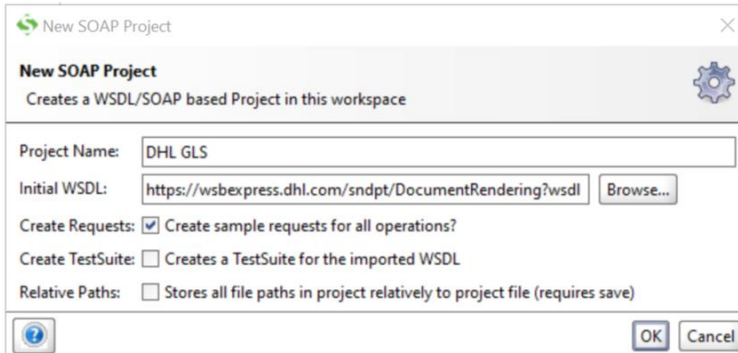
Click here to download encoded file as:

## 16. APPENDIX G: TESTING GLS WITH SOAP UI

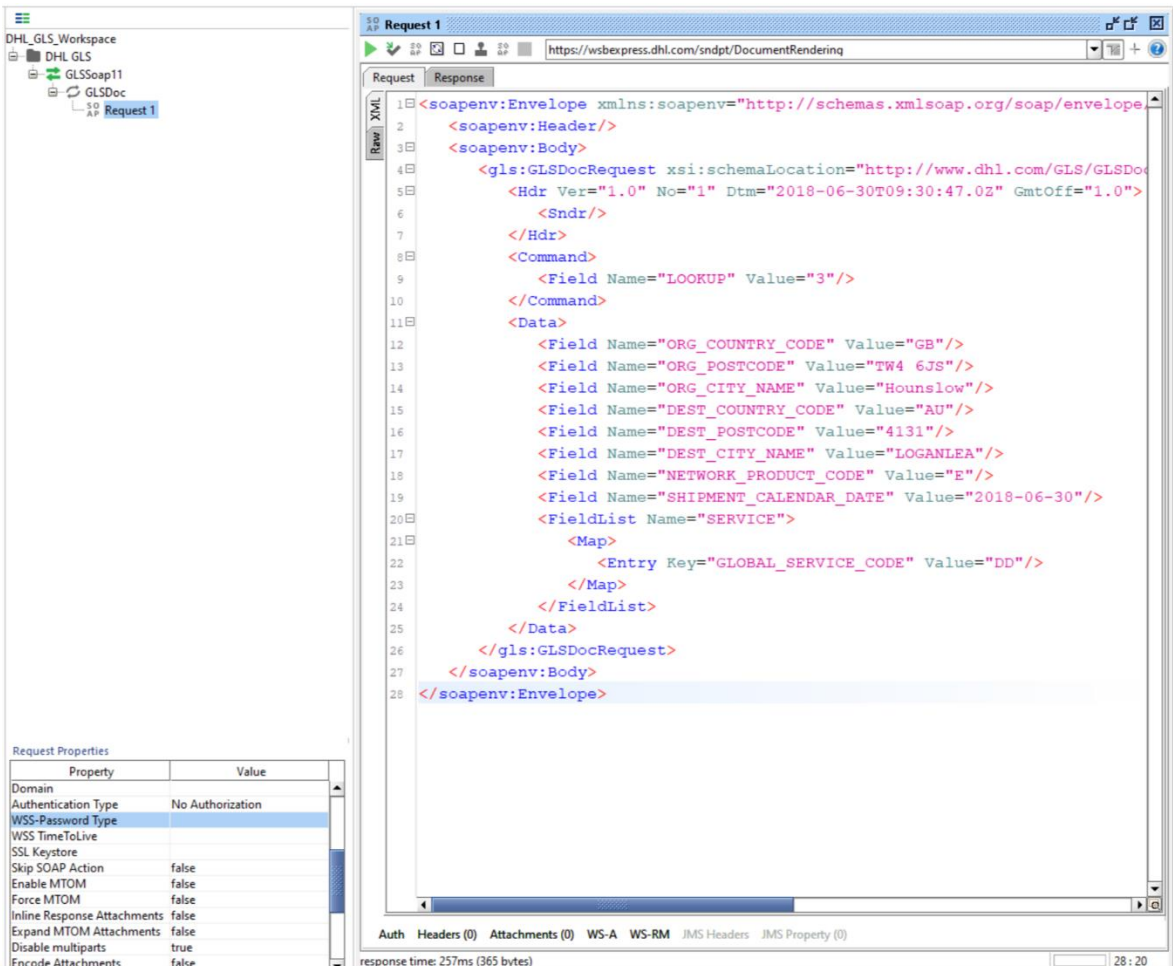
To test the GLS Label creation without developing efforts, you can use common web service testing applications like e.g. SOAP UI.

We will use this tool as an example and show you how to test the creation of a transport label via the DHL GLS service.

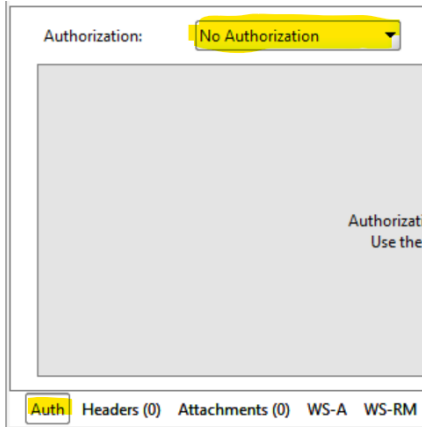
1. Download and install SOAP UI from <https://www.soapui.org/downloads/soapui.html>
2. Start the application
3. Press the SOAP Button to create a new SOAP Project
4. Copy the test WSDL from **“Error! Reference source not found.”** into the field “Initial WSDL” and set the “Project Name” to e.g. “DHL GLS”



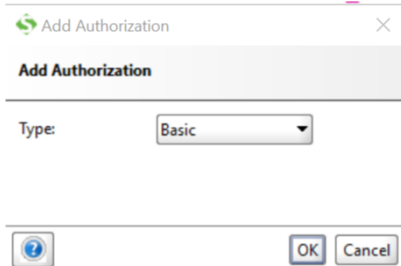
5. A new project has been created with a request message containing all possible attributes.
6. To easily start we copy one of the sample request messages above e.g. the one from “Full Data Lookup”
7. It should look as follows:



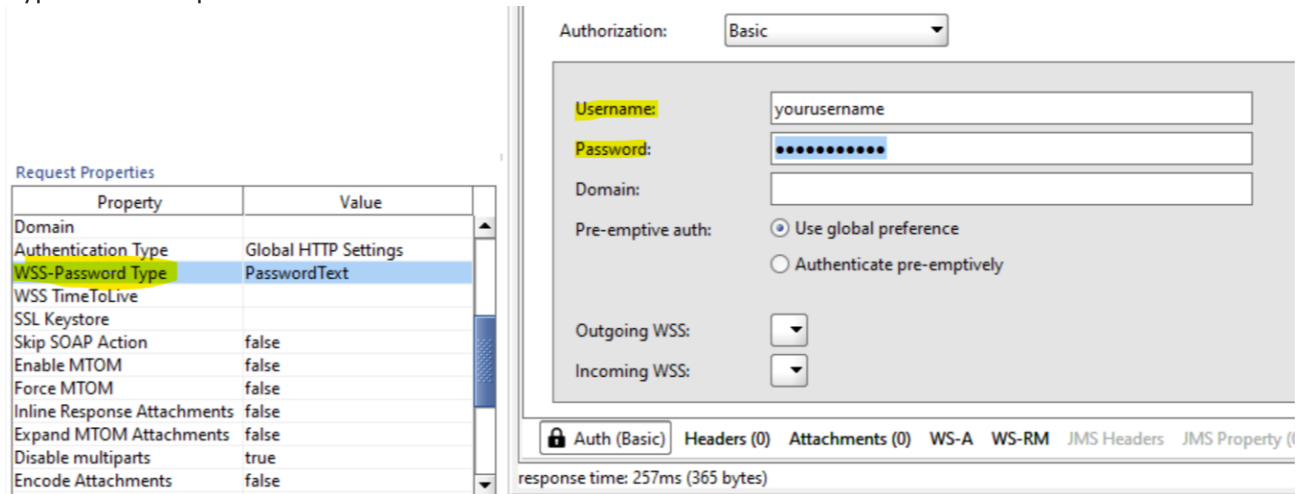
- If you try to execute the request message via the green triangle on top of the request message, you get an error, that you are not authorized to use the service. Hence we need to enter the credentials we have gotten from your DHL contact.
- Press the “Auth” button on the lower left corner in the request message window and select “Add New Authorization” from the “Authorization” drop down box.



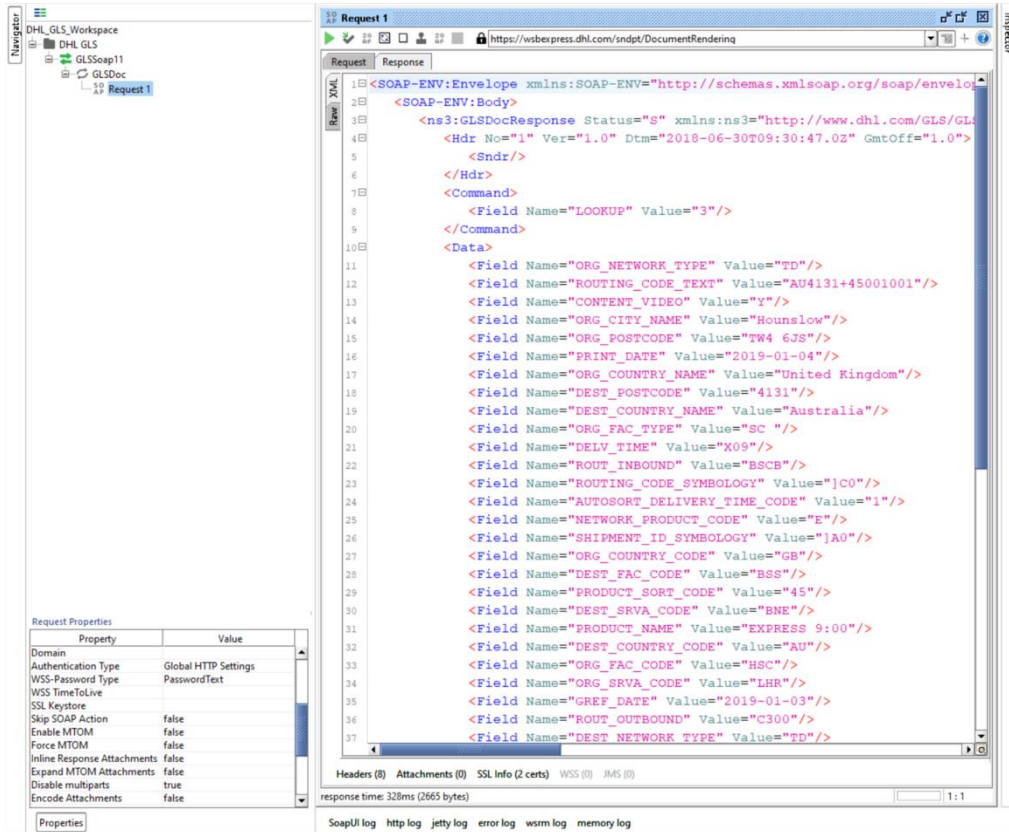
- Select the type “Basic” from the next dialog and press “OK”



- Insert the username and password into the appropriate text fields and set the “WSS-Password Type” in the Request Parameters on the left to “PasswordText”.



- Execute the request again via the green triangle. You now should get back a positive response from the service as shown in the screenshot.



- Save your project via the “Save All” button in the menu.
- When you want to add more request messages to you project, just use the right mouse option on the request name and clone the request. This will copy over all the authentication settings you have just done.

## 17. APPENDIX H: SOAP UI SAMPLE PROJECT

To make it even easier for you, we have prepared a sample SOAP UI project with all the requests from this documentation. You can open the below file simply via the “File/Import Project” Menu option. Only thing you need to do is exchange the username and password in each of the request messages.



DHL-GLS-DOCU-soa  
pui-project.xml

## 18. APPENDIX I: HELPFUL XML AND WEB SERVICE LINKS

XML.Org Home Page, Organization for the Advancement of Structured Information Standards (OASIS)

<http://www.xml.org/>

W3 Schools XML Tutorial, Reference Data

<http://www.w3schools.com/xml/default.asp>

Java Technology and Web Services, Sun Microsystems, Inc.

<https://www.oracle.com/technetwork/java/javase/tech/webservices-jsp-136868.html>

Apache Web Services Project, The Apache Software Foundation

<http://ws.apache.org/>

W3 Schools Web Services Tutorial, Reference Data

[https://www.w3schools.com/xml/xml\\_services.asp](https://www.w3schools.com/xml/xml_services.asp)

Base64 String En- and Decoder

<https://www.opinionatedgeek.com/Codecs/Base64Decoder>

Regular Expression checker

<https://regex101.com/>

Various helpful XML Tools

<https://www.freeformatter.com/xml-validator-xsd.html>

Please be aware that the content of the links above is not provided by DHL.