Specifications for programming shipping logistics systems

Part G – DHL Express
Appendix 5 Label

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1 Introduction

1.1 Document Content

- This document refers to the implementation of shipping logistics systems in the offline version – creation of an EDIFACT EDI message and label.
- This document describes the basic requirements for a DHL compliant Transport Label and Waybill Doc, including the determination of the necessary routing information.
- Furthermore, the basics for the creation of an EDI message, including determination of the available services.
- When using an API Web Service (MyDHL_API + XML-PI), the labels are provided by the web service and comply with DHL requirements.

1.2 Definition

1.2.1 Handling Feature Code

- 3-digit DHL code, printed on the transport label in the handling block (white lettering on a black background)

1.2.2 DHL Service Code

- 2-digit DHL service codes that are included in the EDI record or API request.

1.2.3 EDIFACT IFTMIND01B

- The message format to be used for this is the IFTMIN_D01B_V99 in the current version.
- In the document "EDIFACT_Nachricht_IFTMIN_D01B_V99_XX_.pdf" the structure, naming conventions, etc. are described in detail.
- Data transfer to DHL Express is only possible via SFTP sftp3.dhl.com:4222

1.2.4 Web Service Global Label Service (GLS)

- This web service is provided exclusively for the creation of a DHL-compliant label.
- No generation of shipment data
- For technical specifications, please contact your DHL representative.
- WSDL https://wsbexpress.dhl.com/sndpt/DocumentRendering?wsdl
- Request access data via DHL Developer Portal https://developer.dhl.com/user/login?destination=/form/dhl-express-onboarding

1.2.5 Legend in the document

- Changes and new entries are indicated by the * symbol
- Texts that no longer apply are marked with crossed out ~~abc~~

1.2.6 Transport label

- Attached to the package, contains 3 barcodes on the label.
- When using a MyDHL API Web Service, the label is directly provided from API and meets all requirements described in this document.
- If you are using the Global Label Service (GLS), please refer to the sections in this document.

1.2.7 Waybill Doc / eWaybill Doc

- The Waybill Doc is the label that is created for dutiable shipments only and printed out for non-paperless trade shipments.
- The former designation "Archive Doc" is permitted, but a transport label as a replacement is not.
- The Waybill Doc can be used as a handover receipt.
- When using a MyDHL API Web Service, the label is directly provided from API and meets all requirements described in this document.
- When using the Global Label Service (GLS), please refer to the sections in this document.

2 DHL Shipping Label - Transport Label

- The preferred size of a DHL shipping label is between 148.5mm (A6) or 152.4mm (6 inches) and 200mm.
- The layout for 200mm length is suitable, for example, for landscape printing on A4 paper.
- It is possible to generate the labels via GLS Web Service (rendering).
- A distinction is made between the transport label and the Waybill Doc / Archive Doc.

2.1 General information about the transport label

- A transport label must be generated for each package handed over.
- Each package and thus each transport label must be given a unique package identifier (licenseplate number).
- The following information must not be printed on the transport label
  - Do not print a DHL customer account number
  - Do not print e-mail addresses for senders and recipients
  - Do not print telephone numbers for the sender and recipient[1]

[1] Exception for certain destination countries or for dangerous goods shipments

2.2 Segments and font sizes Transport labels

Product Name Line 1 char height 3[mm], max 20 char,bold Line 2 char height 1 [mm]	**Content Code** char height 6[mm]	**DHL Logo** Min width 30 [mm]. Keep original ratio! Replace with "DHL" for non-graphics printer
Shipper Address / Customer Logo 7 lines max. All lines 2 [mm] char height (6pt, 16 dots) Postcode – City name – State/Province (bold font) Country - (bold font) max 20 chars • Customer Logo: Max width 30 [mm]; must not overlap shipper address		**Area Code of Origin / Contact Info** • "Origin": char height 2 [mm] (6pt, 16 dots) • DHL Service Area Code: 3 char, height 3[mm], bold
Consignee Address / Logo (opt. hooks min 4x4 [mm]; min 0.5 [mm] thick) 7 lines max*, including country name and contact details)*, all 3 [mm] char height (9pt, 24 dots) Country, Postcode, City Name, State/Province 4 [mm] char height (11pt, 32 dots), bold font, max 35 chars • Logo: max 20[mm]; must not overlap shipper address		**Contact Details** All lines 2 [mm] char height (9pt, 24 dots)
Outbound Sort Left-adjusted, max 5 [mm] from edge; char height 5 – 6 [mm] (14pt, 40 dots)	**Destination Facility Code** Centered on label. char height 7 – 9 [mm] (recommended 9 [mm]) (20pt, 55 dots)	**Inbound Sort** Right-adjusted, max 5 mm from edge char height 5 – 6 mm (14pt, 40 dots)
Services / Features Bold White on Black background (inverse video), char height 6 [mm] (17pt, 56 dots). (handling feature string has variable length). Reduce font size to 8 pt if string does not fit into field. I.E. ~ 15 chars incl. separators	**Delivery Date** "Header": 2 [mm] char height(6pt, 16 dots) Value: 4 [mm] char height (11pts, 32 dots)	**Delivery Time** "Header": 2 mm char height(6pt, 16 dots) Value: 4 mm char height (11pts, 32 dots)
Shipment information • *Line 1 Shipment Reference (optional):* 2 [mm] char height (6pt, 16 dots) • *Shipment Lines (2-3)*: 2 [mm] char height (6pt, 16 dots)	**Weight** • *Header*: 2 mm char height (6pt, 16 dots) • *Weight in [kg/ lb]* 4 mm char height (11pt, 32 dots), bold font	**Piece Count** "Piece": 2 [mm] char height(6pt, 16 dot) Value: 4 [mm] char height (11pt, 32 dots), right-adjusted
Special Information (if required) Line 1 - **Piece Info** , Line 2-4 **Special Info ;** All lines optional min 2 [mm] char height (6pt, 16 dots)		
Waybill (Shipment Identifier) Barcode / 2D Code Barcode Code 39 – see barcode specs for two dimensions allowed Symbol height: 11mm, with min 5 mm quite zone on both left / right sides Text below barcode: "WAYBILL" in capital letters, followed by waybill No / Shipment ID, 3 [mm] char height (9pt, 24 dots) **2D Code** – see 2D Code specs		**Contents / Special Info (e.g. DG if required)** *Content description:* min 2 [mm] char height (6pt, 16 dots)
Routing barcode (Code 128 for ASC MH10 "2L" barcode, GS1-128 for GS1 "403" barcode): • Min quiet zones left and right: 5 [mm] each • Barcode height 11 [mm] high, no longer than 91 [mm] • Text below barcode**:** barcode content, with DI/AI in parenthesis. 3 [mm] char height (9pt, 24 dots)		
Customer Data / Information Segment *No restrictions other than overall label dimensions; Information must not interfere with DHL contents. May include text, graphics*		
License Plate (Piece Identifier) Barcode (Code 128 or Code 39 for ASC MH10 License Plate, GS1-128 for GS1 SSCC License Plate): • Min quiet zones left and right: 5 [mm] each • Barcode height must be between 25 and 30 [mm], with a recommended height of 28 [mm], length must be under 91 [mm] • Min x-dimension must not be less than 0.33 [mm] and not more than 0.51 [mm] Text below barcode: barcode content, with DI/AI in parenthesis. 3 [mm] char height (9pt, 24 dots)		

2.3 DHL Transport Label – 200mm



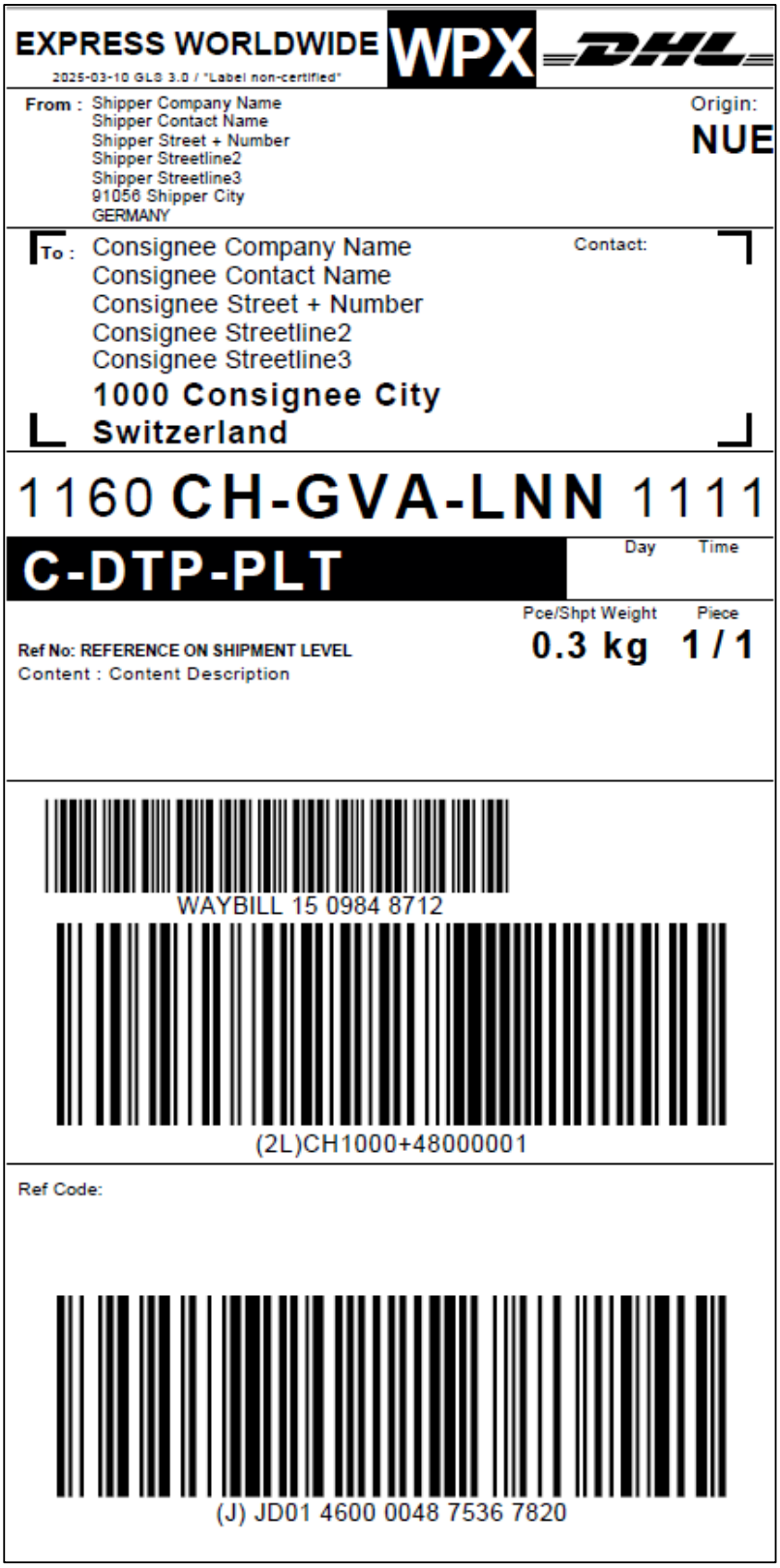
Segmenthöhe
10 mm
18 mm
29 mm
11 mm
8 mm
10 mm
10 mm
18 mm
31 mm
22 mm
38 mm

2.4 DHL Transport Label – A6 (148.5 mm)



Segmenthöhe
7 mm
12 mm
21 mm
8 mm
7 mm
12 mm
9 mm
16 mm
28 mm
30 mm

2.5 Transport Label Blocks



Product block
Sender block
Recipient block
Destinations - Sortcode Block
Handling block
Shipment block
Additional information block Optional
Content and dangerous goods information
Network block AWB and routing code
Additional information block Optional
Network block Licenseplate

2.5.1 Product block

- In the left area
  - Product
  - Current Date: YYYY-MM-DD
  - Shipping solution
  - Global certification number (if available), otherwise = label non-certified
- In the middle range, the product-content code
  - For dutiable shipments (see table under 2.5.7***),*** the product code must be printed inverse.
  - Dutiable products:

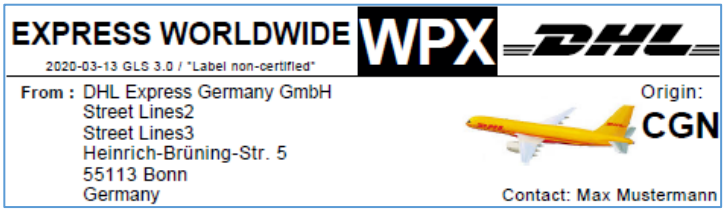


  - Non-dutiable products:



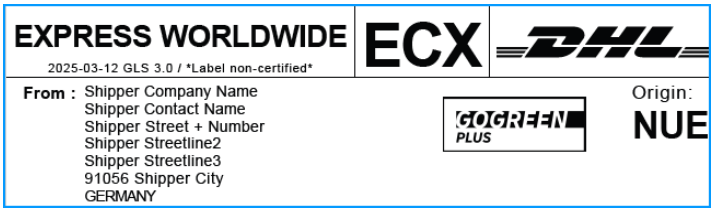
2.5.2 Sender block

- In the sender block, the complete sender address including contact person but without telephone number is printed.
- Optionally, a customer logo or the GoGreen Plus logo can be printed to the right of the address data.
- The code of the DHL Express export office is to be used as the origin code.



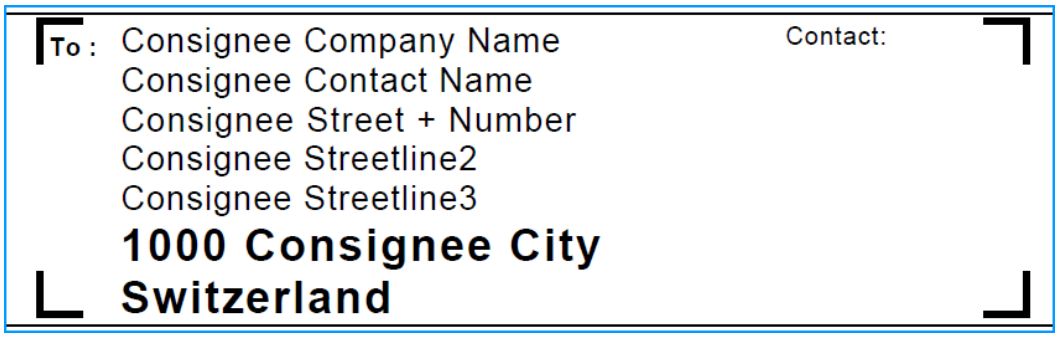
2.5.3 GoGreen Plus Logo

- When using or agreeing on the GoGreen Plus service, the logo is printed in the sender block between the address data and the origin code.
- When using Global Label Service (GLS), the logo is printed by inserting the respective service codes.
- The logos will be provided on request, please contact your DHL contact person.



2.5.4 Recipient block

- In the recipient block, the complete recipient address including contact person but without telephone number is printed.
- The zip code, city and country name are to be printed in bold.



2.5.5 Destination & Sorting Block

- In this block, the destination/destination of the shipment is printed in plain text in the middle.
- The code consists of the two-digit DHL country code, the code for the DHL service area (service area code) and the code of the DHL branch (facility code).
- Left-aligned and right-aligend the inbound and outbound sort codes are printed. These codes consist of a maximum 4-digit, alphanumeric value.
- The determination of this information must be taken from the Global Label Service (GLS) response message. (see section 0)



2.5.6 Handling block

- Codes that are necessary for DHL's internal network handling are printed in the handling block.
- Depending on the DHL Express product or optional service, different codes must be printed in the inverse area. If several codes are passed, they must be separated from each other by a hyphen.
- Under "Day" or "Time", the delivery day or time is coded if necessary.



2.5.7 Codes for Handling Block Products (Excerpt)

Global ProductCode	Product ContentCode	Handling Feature Code	Service Date Code	Time Code
N	DOM			
I	DOC			X09
O	DOL			X10
1	DOT			X12
U	ECX			
D	DOX			
X	XPD			
W	ESU			
K	TDK			X09
L	TDL			X10
T	TDT			X12
P	WPX	C		
H	ESI	C		
E	TDE	C		X09
M	TDM	C		X10
Y	TDY	C		X12
C	CMX			X09
Q	WMX	C		X09

Table 1 Codes for Handling Block Products

2.5.8 Codes for Handling Block – Services (Excerpt)

- For more services, see section 10

Service Code	Service Name	Handling Feature Code	Service Date Code	Time Code
AA	Saturday delivery	SAT	S	
WY	Paperless Trade	PLT		
NN	Neutral Delivery	NDS		
DD	Duties and Taxes Paid	DTP		
YOU	Importer of Record	IOR		
DT	Import Billing	IMP		
HL	Limited Quantities	ADR		

Table 2 Codes for Handling Block Services

2.5.9 Shipment block

- Various shipment information is transferred in the shipment block.
- Shipment reference:
  - Reference of the sender to the shipment (e.g. order number).
- Weight:
  - Parcel weight
  - Total weight of the shipment must be printed at least on the last package
  - Package: Parcel X of Y.
  - X: Continuous counter
  - Y: Number of packages in the shipment

2.5.10 Weight symbol in the shipment block

- For shipments delivered in Germany, a weight symbol must be printed on the transport label if the package exceeds the weight of 10 KG.
- Positioned left hand side to the printed shipment weight
- Recommended symbol size 10x10 mm
- Weight symbols in the appendix.

2.5.11 Weight symbol 10+ KG

- Parcel weight greater than 9.99 KG but less than 20.00 KG



2.5.12 Weight symbol 20+ KG

- Parcel weight greater than 19.99 KG



2.5.13 Content block

- Description of the content of the show.
- For a 200mm label, a separate block is provided, for an A6 label, the table of contents can be printed to the right of the Waybill barcode.



2.5.14 Symbol for Medical Express

- For the Medical Express product, a symbol must be printed to visually highlight these shipments in the DHL network.
- The symbol is inserted in the network block between the routing barcode and the barcode package identifier on the right.
- Size at least 15x15 mm
- The quiet zones for the barcodes must be observed.
- Medical Express symbol in the attachment.



2.6 DHL Network Block

- In the DHL network block, the waybill number, routing code and package ID are printed with the corresponding barcodes.
- The specifications of the barcodes and the corresponding contents are explained in the following chapter.

2.6.1 Waybill Number / Shipment Identifier – Specification and Contents

- The Waybill Number clearly identifies a DHL Express shipment with one or more packages. The Waybill Number consists of 9 digits and a check digit according to Modulo 7.

2.6.1.1 Calculation of the Waybill Number

Underlying AWB number:		123456789
Step 1:	The AWB number is divided by 7	123456789 / 7 = 17636684,1428571
Step 2:	The result from step 1 will be displayed without Decimal places multiplied by 7	17636684 x 7 = 123456788
Step 3:	The AWB will benefit from the result Step 2 subtracted. This results in the Check digit	123456789 – 123456788 = 1

The AWB with check digit is 1234567891

2.6.1.2 Barcode Specifications Waybill Number

- The waybill number is printed as a code 39 barcode. All barcode parameters are defined in ISO/IEC 16388 "Automatic identification and data capture techniques - Code 39 bar code symbology specification".
- The waybill barcode on the DHL shipping labels must meet the following requirements:

Element	Description
Barcode height	The height of the Code39 barcode must be at least 11 mm.
X-Module	The smallest unit of the X-Module must be between 0.36 mm and 0.425 mm.
Quiet zone	The specifications for Code 39 are at least 6 mm.
Quality	The barcode quality must meet the requirement of Class B of the ISO/IEC 15416 classification.
Start and stop signs	DHL Express uses standard for the start and stop signs, which are represented by the special character *.

Table 3 Barcode Code39

2.6.2 Routing Barcodes – Specifications and Contents

- The routing code contains the information about the product, service and destination of the shipment necessary for the automated sorting of the shipment in the DHL stations and hubs and can be displayed in GS1 or ASC MH10 format.

2.6.2.1 Contents of the routing code

- Regardless of the selected format of the routing code, the same content is encoded in the routing barcode.
- The following information is transmitted in the routing code:
- DHL country code of the recipient (GS1: 3 digits numeric, ASC: 2 digits ALPHA)
- Recipient's postal code (up to 9 digits alphanumeric, without special characters and spaces)
- Fixed delimiter ("+")
- Numerical product code of the DHL Express product
- Product code day (e.g. for Saturday delivery)
- Product code Time (e.g. if delivered before 09:00)
- The sum of all handling features (e.g. customs clearance for dutiable products)
- The individual codes can be found in the "ISO COUNTRY CODES", "PRODUCTS", "SERVICE DATE CODES", "DELIVERY TIME CODES" and "FEATURE CODES" spreadsheets of the Excel table "**20XX-XX-XX_Label Reference Data DE_vXX.xlsx".**

2.6.2.2 Structure of the routing code

Section	ASC MH10	GS1/EAN	Barcode	Cleartext
Data Identifier Separator	(		Is not used, only in plain language.	obligatory
Data Identifier	2L	403	obligatory	obligatory
Data Identifier Separator	)		Is not used, only in plain language.	obligatory
DHL Express	2-digit	3 digits (numeric)	obligatory	obligatory
Country code	(ALPHA2)			(if not available, do not press on)
Postal code	Postal code of the recipient's address, max. 12 characters. The zip code may only consist of numbers and letters. Spaces or hyphens are not allowed. No zip code available, then: DEST_COUNTRY_CODE:DEST_SRVA_CODEDEST_FAC_CODE		dependent	obligatory
				(if not available, can be empty)
Field Separator	"+"		obligatory	obligatory
				(always +)
Numerical Product Code	2 numbers (fixed length)		obligatory	obligatory
				if none fill with zeros
Product code tag	2 numbers (fixed length)		Optional	obligatory
				if none fill with zeros
Product code Time	1 number (fixed length)		Optional	obligatory
				if none fill with zeros
Handling Feature Code(s)	3 numbers with leading zeros (fixed length). Sum of all feature codes.		Optional	obligatory
				if none fill with zeros

Table 4 Routing barcode structure

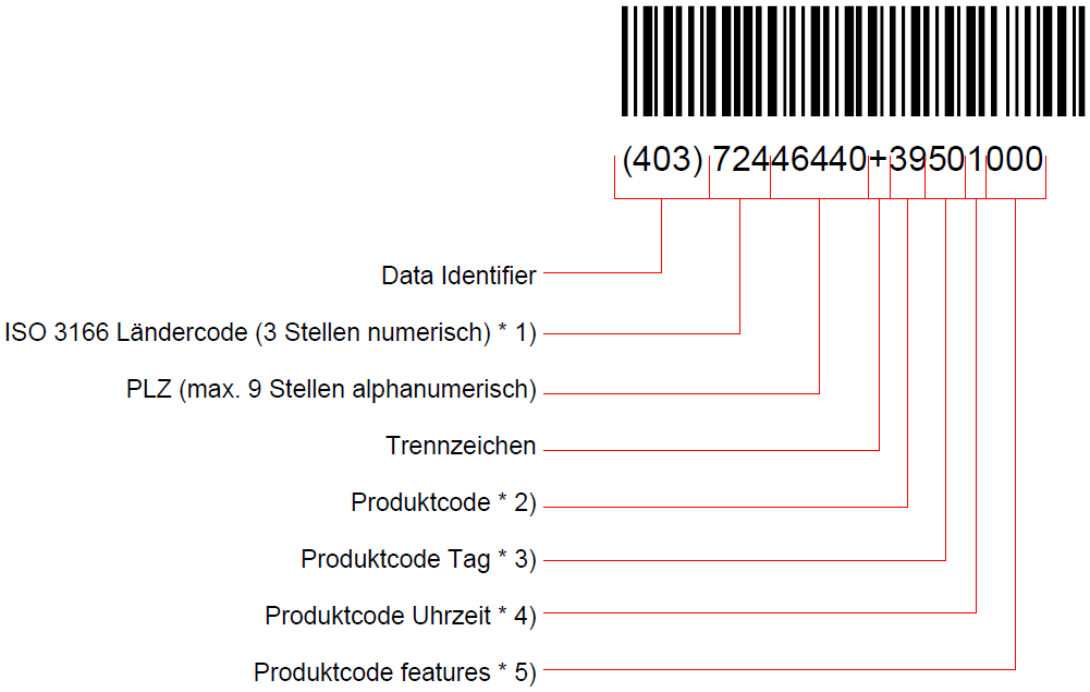
2.6.2.3 Routing barcode specifications

- The print quality of the barcode is defined in the ISO/IEC 15416 standard. A routing barcode on the DHL shipping labels must meet the following requirements.

Barcode height	**The height of the Code128 barcode must be between 25 mm and 28 mm. A height of 28 mm is recommended.**
X-Module	The smallest unit of the X-module must be between 0.33 mm and 0.51 mm.
Quiet zone	The specifications for Code128 are at least 5 mm.
Quality	The barcode quality must meet the requirement of Class B classification according to ANSI and CEN (EN 1635).

Table 5 Barcode Code128

2.6.2.4 Example structure of a GS1 routing barcode.



2.6.2.5 Example structure of an ASC MH10 routing barcode.



*** See attachment: Label Referenzdaten.xls in the current version**

1) DHL COUNTRY CODES Sheet
2) Spreadsheet 'PRODUCTS'
3) SERVICE DATE CODES spreadsheet
4) DELIVERY TIME CODES spreadsheet
5) FEATURE CODES Sheet

2.6.3 Package Identifier / License Plate Number – Barcode Specifications and Contents

- The license plate number is used to uniquely identify a specific package.
- License plates according to the r ASC MH10 standards must be used for package identification.

2.6.3.1 Package identifier according to ASC MH10

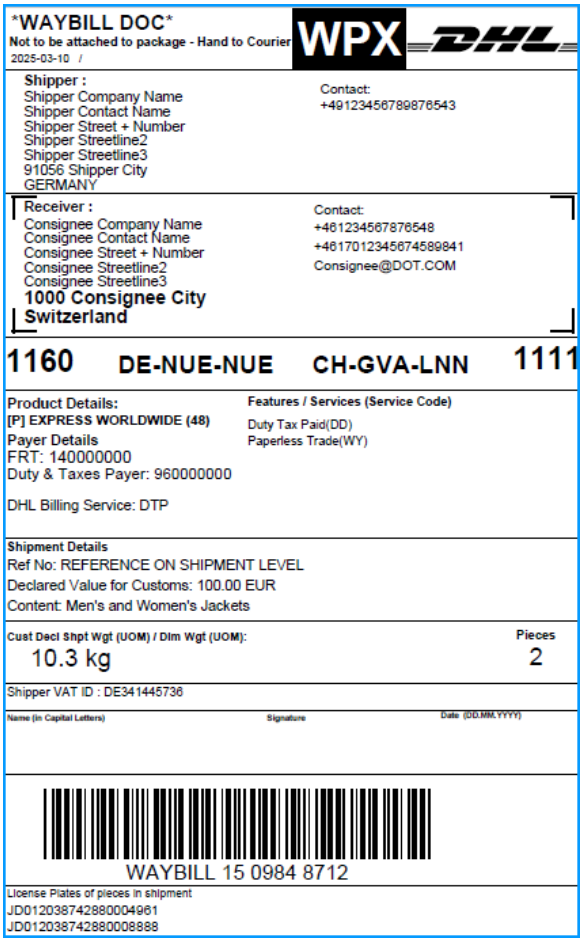
- The ASC MH10/CODE128 barcode is alphanumeric and does not contain a check digit compared to GS1/EAN 128.



* Variable length from 3 – 7 digits

3 Waybill Doc / eWaybill Label

- For all dutiable DHL Express products (WPX, TDE, TDY, ESI), a Waybill Doc is required for customs pre-declaration.
  - When using Paperless Trade, the Waybill Doc is generated and provided by the DHL EDI Gateway.
  - The creation and transmission are not necessary with paperless handling.
- The Waybill Doc must be attached but not sticked to the shipment .[1]
- In contrast to the transport label, only the AWB barcode is printed.
- The Waybill Doc can be used as a handover receipt, for all products see section 0
- The following information must be printed differently from the transport label:
  - Recipient phone number and email address (if known)
  - Freight Payer Customer Number
  - Customer number for import duties (if required)
  - Total Value of Goods / Total Customs Value and Currency
  - Uses Services
  - DHL Billing Service


WAYBILL DOC
Not to be attached to package - Hand to Courier
2025-03-10 /
WPX
Shipper :
Shipper Company Name
Shipper Contact Name
Shipper Street + Number
Shipper Streetline2
Shipper Streetline3
91056 Shipper City
GERMANY
Contact:
+49123456789876543
Receiver :
Consignee Company Name
Consignee Contact Name
Consignee Street + Number
Consignee Streetline2
Consignee Streetline3
1000 Consignee City
Switzerland
Contact:
+461234567876548
+4617012345674589841
Consignee@DOT.COM
1160 DE-NUE-NUE CH-GVA-LNN 1111
Product Details:
[P] EXPRESS WORLDWIDE (48)
Payer Details
FRT: 140000000
Duty & Taxes Payer: 960000000
DHL Billing Service: DTP
Features / Services (Service Code)
Duty Tax Paid(DD)
Paperless Trade(WY)
Shipment Details
Ref No: REFERENCE ON SHIPMENT LEVEL
Declared Value for Customs: 100.00 EUR
Content: Men's and Women's Jackets
Cust Decl Shpt Wgt (UOM) / Dim Wgt (UOM):
10.3 kg
Pieces
2
Shipper VAT ID : DE341445736
Name (in Capital Letters)
Signature
Date (DD.MM.YYYY)
WAYBILL 15 0984 8712
License Plates of pieces in shipment
JD012038742880004961
JD012038742880008888

[1] Only for shipments without paperless or ADI clearance

3.1 Segments and font size Waybill Doc

b) " * WAYBILL DOC * "
char height 4mm, bold (11pt, 32 dots) for line 1
"*Text*" 3 [mm] char height (9pt, 24 dots), bold font for all other lines

Content Code
char height 6 [mm] (17pts, 47 dots)

DHL Logo
Min width 30 [mm]. Keep original ratio!
Replace with "DHL" for non-graphics printer

Shipper Address
7 lines max. all lines 2 [mm] char height (6pt, 16 dots); Postcode – City name – State/Province (bold font); Country - (bold font) max 20 chars

Sender Contact Details
All lines 3 [mm] char height (9pt, 24 dots)

Receiver Address
7 lines maximum, *including country name and contact details)*
All lines 3 mm char height (9pt, 24 dots)

Receiver Contact Details
All lines 3 [mm] char height (9pt, 24 dots)

Country, Postcode, City name, State/Province 4 [mm] char height (11pt, 32 dots), bold font, max 35 chars

Origin / Destination Facility Code
[Country Code]-[Service Area Code][Facility Code]
Left aligned in two columns, char height 3[mm]

OB Sort Code IB Sort Code
Sort Codes (both Captions and Values) left aligned in two columns, char height 3[mm]

Product Info and Payment Terms
Caption "Product Details:" 2 mm char height (6pt, 16 dots
Line 2: 3 mm char height (9pt, 24 dots)

Caption "Payer Details:" and all lines 2 [mm] char height (9pt, 24 dots)

Features & Services (Service Code)
Caption: 3 mm char height (9pt, 24 dots)
All lines 2 mm char height (6pt, 16 dots)
All services as ordered by the customer, to be listed in four columns.

Shipment Details
Caption "Shipment Details:" 2 [mm] char height (6pt, 16 dots), bold font
All lines 2 mm char height (6pt, 16 dots)

Content Descriptions/ Declarations
Caption "Content:" 2 [mm] char height (6pt, 16 dots),
Content descriptions to be printed in two columns: [Content Title] [Content Description]

Shipment Weight and Dimensions
"*Caption*" 3 [mm] char height (9pt, 24 dots), bold font
All lines 2 [mm] char height (9pt, 24 dots), printed in two columns, left aligned

Number of Pieces
"*Caption*" 3 [mm] char height (9pt, 24 dots)
Bold Font
"# Pieces": 3 [mm] char height (9pt, 24 dots)

Special Info Lines and 2D Code (optional)
All lines: 2 [mm] char height (9pt, 24 dots)
2D Code: can be offered to customers, where the structure of 2D code must follow ISO 15434. See 2D code specifications for format and content. When printing a 2D Code, it will be placed following the Special Info lines

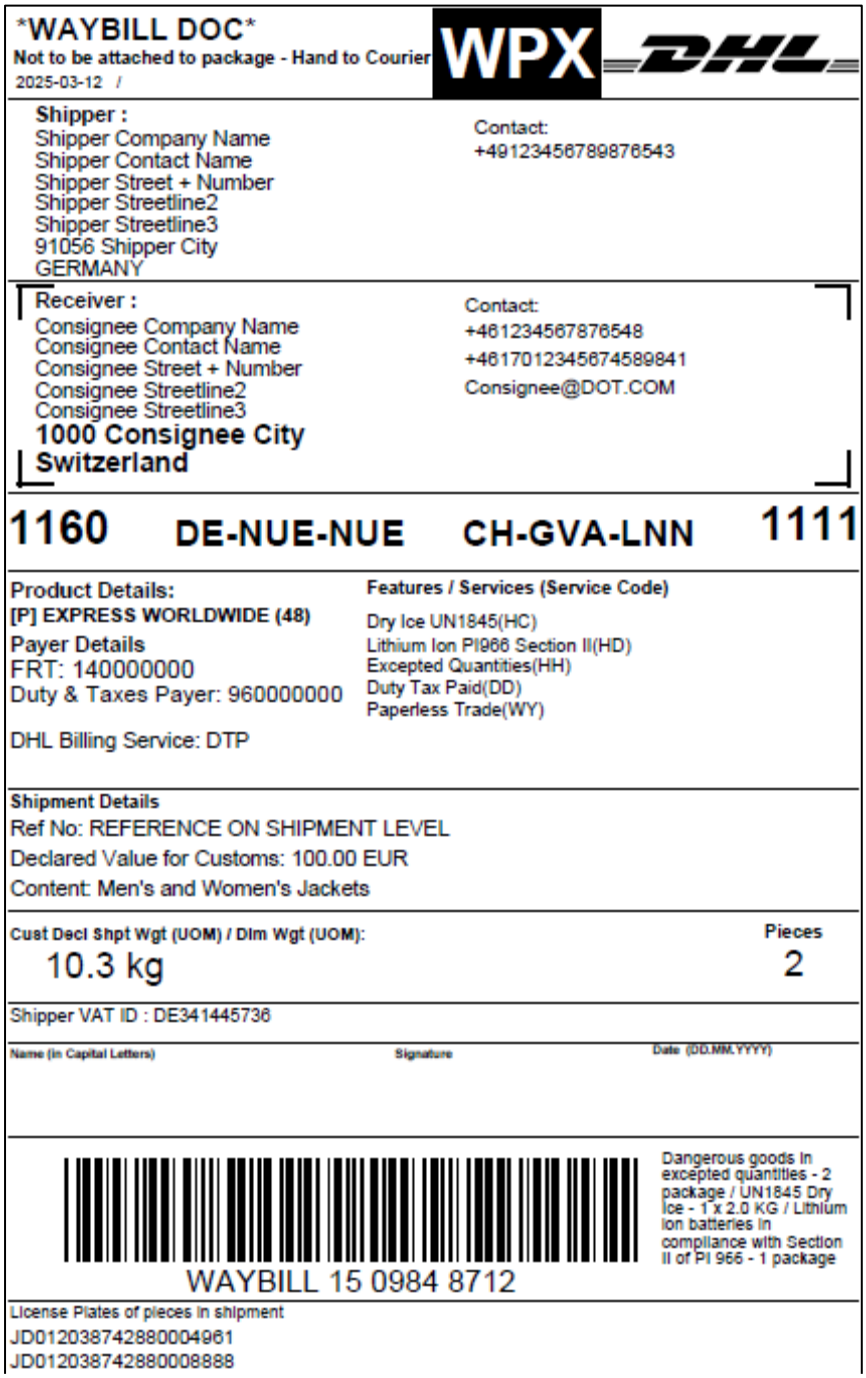
Waybill Barcode
Barcode Code 39 – see barcode specifications
Text below barcode: string "WAYBILL" in capital letters, followed by waybill number. 3 [mm] char height (9pt, 24 dots)

Customer's Signature
All text and captions: 2 [mm] char height (6pt, 16 dots)

List of License Plates in Shipment
All lines, 2 [mm] char height (6pt, 16 dots)

Piece Weight and Dimensions
All text and captions: 2 [mm] char height (6pt, 16 dots), printed in two columns, left aligned

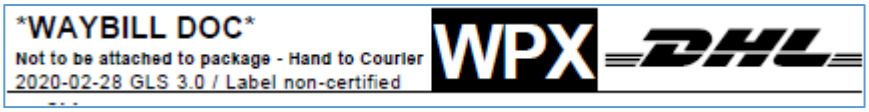
3.2 Waybill Doc Blocks



Product block
Sender block
Recipient block
Destinations - Sortcode block
Product and Payment block Service Details block
Sendungs Detail block
Shipment weight, dimensions, number of pieces block - optional
Special Info block
Signature block
Barcode AWB Number block Dangerous Goods Text
List of packages block

3.2.1 Product block

- In the product block, the product content code is printed. For dutiable shipments (see table under 2.5.7**),** the product code must be printed inverse.
- In the left area
  - The text: *WAYBILL DOC*
  - The text: Not to be attached to package – Hand to Courier
  - Current Date: YYYY-MM-DD
  - Shipping solution
  - Global certification number (if available), otherwise = label non-certified

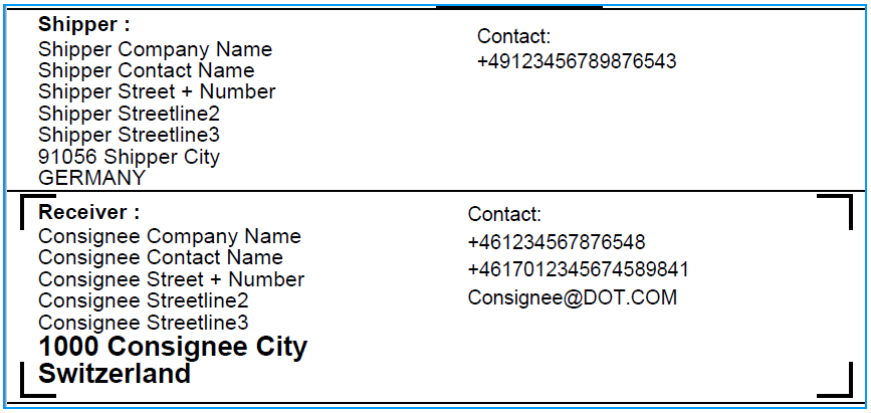


3.2.2 Sender block

- In the sender block, the complete sender address including contact person, telephone number and e-mail address is printed.

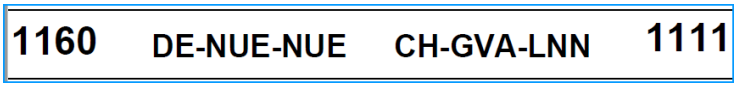
3.2.3 Recipient block

- The complete recipient address including contact person, telephone number and e-mail address is printed in the recipient block.
- The recipients are to be printed in bold, city and country name.



3.2.4 Destination & Sort Code Block

- In this block, the destination/destination of the shipment is printed in plain text in the middle.
- The code consists of the two-digit DHL country code, the code for the DHL service area (service area code) and the code of the DHL branch (facility code).
- Flush to the left and right, the inbound and outbound sort codes are printed. These codes consist of a maximum 4-digit, alphanumeric value.
- The determination of this information must be taken from the Global Label Service (GLS) response message.



3.2.5 Product / Service / Customer Number Block

- Product Details: Product Name
- Features / Service (Service Codes)
  - All selected service with name and service code in parentheses
- Customer number details:
  - FRT A/C: = customer numbers of the freight payer
  - Duty & Taxes A/C: = customer number for import duties
  - DHL Billing Service: = DTU – if service DTP included = DTP

Product Details:	**Features / Services (Service Code)**
[P] EXPRESS WORLDWIDE (48)	Duty Tax Paid(DD)
Payer Details	Paperless Trade(WY)
FRT: 140000000	
Duty & Taxes Payer: 960000000	
DHL Billing Service: DTP	

3.2.6 Shipment Details Block

- Shipment Details
- Shipper Reference
- Customs Value: Currency and Value of Goods
- Summary

3.2.7 Shipment weight, dimensions and number of packages block

- Total weight of the shipment in KG
- Optional volumetric weight in cm^3
- Number of packages in the shipment under Pieces.

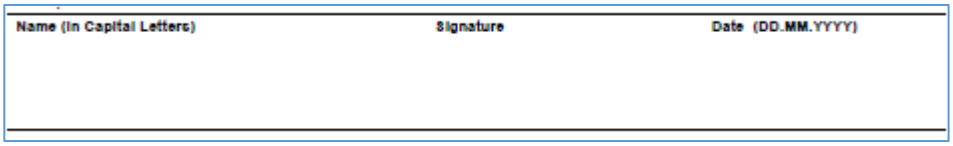
3.2.8 Special Info Block

- Recipient VAT ID = Import Registration Numbers or VAT ID
- Brazil CNP Number

Shipment Details	
Ref No: REFERENCE ON SHIPMENT LEVEL	
Declared Value for Customs: 100.00 EUR	
Content: Men's and Women's Jackets	
Cust Decl Shpt Wgt (UOM) / Dim Wgt (UOM):	**Pieces**
10.3 kg	2
Shipper VAT ID : DE341445736	

3.2.8.1 Signature section (optional)

- The Waybill Doc can be used as a handover receipt for all products
- Here you can confirm that the courier driver has taken over the shipment
- For dutiable shipments, an additional second Waybill Doc must then be printed.[1]



3.2.9 Barcode block Waybill Number (AWB)

- Barcode Specification see section 2.6.1
- Text: WAYBILL and AWB number in plain text

3.2.9.1 Barcode Block Dangerous Goods Texts

- In addition to the barcode, the dangerous goods texts of the shipment are printed, and the quiet zone for the barcode must be adhered to



3.2.9.2 List of packages block

- List of License Plates in Shipment = List of all package identifiers of the shipment
- A second page can be printed if there is not enough space for this list.



[1] Only for shipments without paperless clearance

4 GLS Web Service access data and URL

4.1 Access data GLS Webservice

- Please apply for access data (MyDHL API) via DHL Developer Portal, see Section 1.2.4

4.2 Test Enviroment

- https://wsbexpress.dhl.com/sndpt/DocumentRendering
- https://wsbexpress.dhl.com/sndpt/DocumentRendering?wsdl

4.3 Production Environment

- https://wsbexpress.dhl.com/gbl/DocumentRendering
- https://wsbexpress.dhl.com/gbl/DocumentRendering?wsdl

5 Creation of Transport and Waybill Doc via Global Label Service GLS

- DHL Express provides an API Web Service (Global Label Service) exclusively for the creation of a DHL-compliant label.
- No generation of shipment data
- The web service call is identical to the determination of the sortcode information from the section 5.2
- Determining the routing and sortcode information from the section 5.2 eliminated as a result.

5.1 Example GLS Request Label Rendering WPX

- Dutiable shipment with service DTP and PLT, 1 package.

```
<soapenv:Envelope xmlns:gls="http://www.dhl.com/GLS/GLSDoc"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:header/>
<soapenv:Body>
<gls:GLSDocRequest xsi:schemaLocation="http://www.dhl.com/GLS/GLSDoc GLSDoc.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<Hdr Dtm="2010-06-30T09:30:47.0Z" GmtOff="8.0" No="1" Ver="1.0">
        <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>
        <Field Name="DHL_LOGO_FLAG" Value="Y"/>
        <Field Name="WATERMARK" Value="N"/>
        <Field Name="SHIPMENT_CALENDAR_DATE" Value="2024-06-10"/>
        <Field Name="PICKUP_DATE" Value="2024-06-10"/>
        <Field Name="ROUTING_CODE_DATA_INDENTIFIER" Value="2L"/>
        <Field Name="ROUTING_CODE_SYMBOLOGY" Value="]C0"/>
        <Field Name="SHIPMENT_ID_SYMBOLOGY" Value="]A0"/>
        <Field Name="NETWORK_PRODUCT_CODE" Value="Q"/>
        <Field Name="WEIGHT_UOM" Value="kg"/>
        <Field Name="INCOTERM" Value="DAP"/>
        <Field Name="SHIPMENT_INFO1" Value="Ref No: REFERENCE ON SHIPMENT LEVEL"/>
        <Field Name="SPECIAL_INFOA2" Value="Shipper VAT ID : DE341445736"/>
        <Field Name="TOTAL_NO_OF_PIECES" Value="1"/>
        <Field Name="SHIPMENT_WEIGHT" Value="1.3"/>
        <Field Name="PIECE_CONTENT" Value="Content: Men's and Women's Jackets"/>
        <Field Name="ADDR_SEND_NAME1" Value="Shipper Company Name"/>
        <Field Name="SHIPPER_ADDRESS1" Value="Shipper Company Name"/>
        <Field Name="ADDR_SEND_NAME2" Value="Shipper Contact Name"/>
        <Field Name="ADDR_SEND_NAME3" Value="Shipper Street + Number"/>
        <Field Name="SHIPPER_ADDRESS2" Value="Shipper Street + Number"/>
        <Field Name="ADDR_SEND_NAME4" Value="Shipper Streetline2"/>
        <Field Name="ADDR_SEND_NAME5" Value="Shipper Streetline3"/>
        <Field Name="ADDR_SEND_NAME6" Value="91056 Shipper City "/>
        <Field Name="ADDR_SEND_NAME7" Value="GERMANY"/>
        <Field Name="ORG_COUNTRY_CODE" Value="DE"/>
        <Field Name="ADDR_SEND_CONTACT" Value="+49123456789876543"/>
        <Field Name="ORG_POSTCODE" Value="91056"/>
        <Field Name="ORG_CITY_NAME" Value="Shipper City"/>
        <Field Name="FRT_ACCOUNT_NO" Value="FRT: 144780190"/>
        <Field Name="ADDR_RECV_NAME1" Value="Consignee Company Name"/>
        <Field Name="RECEIVER_ADDRESS1" Value="Consignee Company Name"/>
        <Field Name="ADDR_RECV_NAME2" Value="Consignee Contact Name"/>
        <Field Name="ADDR_RECV_NAME3" Value="Consignee Street + Number"/>
        <Field Name="ADDR_RECV_NAME4" Value="Consignee Streetline2"/>
        <Field Name="ADDR_RECV_NAME5" Value="Consignee Streetline3"/>
        <Field Name="ADDR_RECV_NAME6" Value="1000 Consignee City"/>
        <Field Name="ADDR_RECV_NAME7" Value="Switzerland"/>
        <Field Name="DEST_COUNTRY_CODE" Value="CH"/>
```

```
        <Field Name="ADDR_RECV_CONTACT1" Value="+461234567876548"/>
        <Field Name="ADDR_RECV_CONTACT2" Value="+46170123456745898 41"/>
        <Field Name="ADDR_RECV_CONTACT3" Value="Consignee@DOT.COM"/>
        <Field Name="DEST_POSTCODE" Value="1000"/>
        <Field Name="DEST_CITY_NAME" Value="Consignee City"/>
        <Field Name="ADDR_SEND_EMAIL" Value="Shipper@DOT.COM"/>
        <Field Name="ADDR_SEND_PHONE" Value="+49123456789876543"/>
        <Field Name="ADDR_RECV_EMAIL" Value="Consignee@DOT.COM"/>
        <Field Name="ADDR_RECV_PHONE" Value="+461234567876548"/>
        <!-- <Field Name="SHIPMENT_INFO3" Value="Declared Value for Customs: 100.00 EUR"/> -->
        <Field Name="SHIPMENT_ID" Value="150984871"/>
        <Field Name="SHIPMENT_ID_CHECK_DIGIT" Value="2"/>
        <FieldList Name="SERVICE">
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="WY"/>
                </Map>
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="DD"/>
                </Map>
                <Map/>
        </FieldList>
        <FieldList Name="PIECE_LP_LOOKUP_LIST">
                <Map>
                        <Entry Key="PIECE_LP_DATA_IDENTIFIER" Value="J"/>
                </Map>
        </FieldList>
</Data>
<Document OutputFormat="PDF">
        <!--ECOM26_64_002, ECOM26_84_001 -->
        <Template Type="ECOM" TemplateId="ECOM26_84_001">
                <Data>
                        <Field Name="PIECE_SEQ" Value="1"/>
                        <Field Name="PIECE_WEIGHT" Value="1.3"/>
                        <Field Name="PIECE_CONTENT" Value="Content : Men's and Women's Jackets "/>
                        <Field Name="PIECE_REFERENCE" Value="Ref Code: "/>
                        <Field Name="PIECE_LP" Value="JD014600004875367820"/>
                        <Field Name="PIECE_LP_DATA_IDENTIFIER" Value="J"/>
                        <Field Name="PIECE_LP_SYMBOLOGY" Value="]C0"/>
                </Data>
        </Template>
</Document>
</gls:GLSDocRequest>
</soapenv:Body>
</soapenv:Envelope>
```

5.2 Example GLS Request Label Rendering Dangerous Goods

- Dutiable shipment with DTP and PLT service
- 2 packages of dangerous goods with inserted dangerous goods text

```
<soapenv:Envelope xmlns:gls="http://www.dhl.com/GLS/GLSDoc"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:header/>
<soapenv:Body>
<gls:GLSDocRequest xsi:schemaLocation="http://www.dhl.com/GLS/GLSDoc GLSDoc.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<Hdr Dtm="2010-06-30T09:30:47.0Z" GmtOff="8.0" No="1" Ver="1.0">
        <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>
        <Field Name="WATERMARK" Value="N"/>
        <Field Name="SHIPMENT_CALENDAR_DATE" Value="2024-06-10"/>
        <Field Name="PICKUP_DATE" Value="2024-06-10"/>
```

```
        <Field Name="ROUTING_CODE_DATA_INDENTIFIER" Value="2L"/>
        <Field Name="ROUTING_CODE_SYMBOLOGY" Value="]C0"/>
        <Field Name="SHIPMENT_ID_SYMBOLOGY" Value="]A0"/>
        <Field Name="NETWORK_PRODUCT_CODE" Value="P"/>
        <Field Name="WEIGHT_UOM" Value="kg"/>
        <Field Name="INCOTERM" Value="DAP"/>
        <Field Name="SHIPMENT_INFO1" Value="Ref No: REFERENCE ON SHIPMENT LEVEL"/>
        <Field Name="SPECIAL_INFOA2" Value="Shipper VAT ID : DE341445736"/>
        <Field Name="TOTAL_NO_OF_PIECES" Value="1"/>
        <Field Name="SHIPMENT_WEIGHT" Value="7.6"/>
        <Field Name="PIECE_CONTENT" Value="Content: electronic equipment with dry ice cooled"/>
        <Field Name="ADDR_SEND_NAME1" Value="Shipper Company Name"/>
        <Field Name="SHIPPER_ADDRESS1" Value="Shipper Company Name"/>
        <Field Name="ADDR_SEND_NAME2" Value="Shipper Contact Name"/>
        <Field Name="ADDR_SEND_NAME3" Value="Shipper Street + Number"/>
        <Field Name="SHIPPER_ADDRESS2" Value="Shipper Street + Number"/>
        <Field Name="ADDR_SEND_NAME4" Value="Shipper Streetline2"/>
        <Field Name="ADDR_SEND_NAME5" Value="Shipper Streetline3"/>
        <Field Name="ADDR_SEND_NAME6" Value="91056 Shipper City "/>
        <Field Name="ADDR_SEND_NAME7" Value="GERMANY"/>
        <Field Name="ORG_COUNTRY_CODE" Value="DE"/>
        <Field Name="ADDR_SEND_CONTACT" Value="+49123456789876543"/>
        <Field Name="ORG_POSTCODE" Value="91056"/>
        <Field Name="ORG_CITY_NAME" Value="Shipper City"/>
        <Field Name="ORG_SRVA_CODE" Value="NUE"/>
        <Field Name="ORG_FAC_CODE" Value="NUE"/>
        <Field Name="FRT_ACCOUNT_NO" Value="FRT: 144780190"/>
        <Field Name="ADDR_RECV_NAME1" Value="Consignee Company Name"/>
        <Field Name="RECEIVER_ADDRESS1" Value="Consignee Company Name"/>
        <Field Name="ADDR_RECV_NAME2" Value="Consignee Contact Name"/>
        <Field Name="ADDR_RECV_NAME3" Value="Consignee Street + Number"/>
        <Field Name="ADDR_RECV_NAME4" Value="Consignee Streetline2"/>
        <Field Name="ADDR_RECV_NAME5" Value="Consignee Streetline3"/>
        <Field Name="ADDR_RECV_NAME6" Value="TW59WQ Consignee City "/>
        <Field Name="ADDR_RECV_NAME7" Value="UNITED KINGDOM"/>
        <Field Name="DEST_COUNTRY_CODE" Value="GB"/>
        <Field Name="ADDR_RECV_CONTACT1" Value="+461234567876548"/>
        <Field Name="ADDR_RECV_CONTACT2" Value="+4617012345674589841"/>
        <Field Name="ADDR_RECV_CONTACT3" Value="Consignee@DOT.COM"/>
        <Field Name="DEST_POSTCODE" Value="TW59WQ"/>
        <Field Name="DEST_CITY_NAME" Value="Consignee City"/>
        <Field Name="DEST_SRVA_CODE" Value="LHR"/>
        <Field Name="DEST_FAC_CODE" Value="HS2"/>
        <Field Name="ADDR_SEND_EMAIL" Value="Shipper@DOT.COM"/>
        <Field Name="ADDR_SEND_PHONE" Value="+49123456789876543"/>
        <Field Name="ADDR_RECV_EMAIL" Value="Consignee@DOT.COM"/>
        <Field Name="ADDR_RECV_PHONE" Value="+461234567876548"/>
        <!-- <Field Name="SHIPMENT_INFO3" Value="Declared Value for Customs: 100.00 EUR"/> -->
        <Field Name="SHIPMENT_ID" Value="150984871"/>
        <Field Name="SHIPMENT_ID_CHECK_DIGIT" Value="2"/>
        <Field Name="DNG_GDS_DSC" Value="Dangerous goods in excepted quantities - 2 package / UN1845 Dry Ice -
1 x 2.0 KG / Lithium ion batteries in compliance with Section II of PI 966 - 1 package"/>
        <FieldList Name="SERVICE">
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="WY"/>
                </Map>
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="DD"/>
                </Map>
                <Map/>
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="HH"/>
                </Map>
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="HD"/>
                </Map>
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="HC"/>
                </Map>
        </FieldList>
        <FieldList Name="PIECE_LP_LOOKUP_LIST">
                <Map>
                        <Entry Key="PIECE_LP_DATA_IDENTIFIER" Value="J"/>
```

```
                </Map>
        </FieldList>
</Data>
<Document OutputFormat="PDF">
        <!--ECOM26_64_002 ECOM26_84_001 -->
        <Template Type="ECOM" TemplateId="ECOM26_84_001">
                <Data>
                        <Field Name="PIECE_SEQ" Value="1"/>
                        <Field Name="PIECE_WEIGHT" Value="5.3"/>
                        <Field Name="PIECE_CONTENT" Value="Content : electronic equipment with dry ice
cooled"/>
                        <Field Name="PIECE_REFERENCE" Value="Ref Code: "/>
                        <Field Name="PIECE_LP" Value="JD014600004875367820"/>
                        <Field Name="PIECE_LP_DATA_IDENTIFIER" Value="J"/>
                        <Field Name="PIECE_LP_SYMBOLOGY" Value="]C0"/>
                </Data>
        </Template>
</Document>
<Document OutputFormat="PDF">
        <!--ECOM26_64_002 ECOM26_84_001 -->
        <Template Type="ECOM" TemplateId="ECOM26_84_001">
                <Data>
                        <Field Name="PIECE_SEQ" Value="2"/>
                        <Field Name="PIECE_WEIGHT" Value="2.3"/>
                        <Field Name="PIECE_CONTENT" Value="Content : electronic equipment with dry ice
cooled"/>
                        <Field Name="PIECE_REFERENCE" Value="Ref Code: "/>
                        <Field Name="PIECE_LP" Value="JD014600004875367820"/>
                        <Field Name="PIECE_LP_DATA_IDENTIFIER" Value="J"/>
                        <Field Name="PIECE_LP_SYMBOLOGY" Value="]C0"/>
                </Data>
        </Template>
</Document>
</gls:GLSDocRequest>
</soapenv:Body>
</soapenv:Envelope>
```

6 Determination of destination and sorting information

- To determine these two values, the GLS Web Service must be called. The values for the shipping label can then be taken from the returned response message.
- Below you will find the core information of a request with the corresponding response message as well as the destination and sorting block determined from it.
- Credentials and Endpoint under Section 4

6.1 Examples GLS Routing (Lookup)

6.1.1 GLS-Request – Dutiable Shipment (WPX) with Service DTP and PLT

```
<soapenv:Envelope xmlns:gls="http://www.dhl.com/GLS/GLSDoc"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:header/>
<soapenv:Body>
<gls:GLSDocRequest xsi:schemaLocation="http://www.dhl.com/GLS/GLSDoc GLSDoc.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<Hdr Dtm="2010-06-30T09:30:47.0Z" GmtOff="8.0" No="1" Ver="1.0">
        <Sndr/>
</HDR>
<Command>
        <Field Name="LOOKUP" Value="3"/>
</Command>
<Data>
        <Field Name="ORG_COUNTRY_CODE" Value="DE"/>
        <Field Name="ORG_POSTCODE" Value="90427"/>
        <Field Name="ORG_CITY_NAME" Value="Shipper City"/>
        <Field Name="DEST_COUNTRY_CODE" Value="CH"/>
        <Field Name="DEST_POSTCODE" Value="1000"/>
        <Field Name="DEST_CITY_NAME" Value="Consignee City"/>
        <Field Name="DEST_SUBURB_NAME" Value="Consignee Suburban"/>
        <Field Name="NETWORK_PRODUCT_CODE" Value="P"/>
        <Field Name="SHIPMENT_CALENDAR_DATE" Value="2025-03-10"/>
        <FieldList Name="SERVICE">
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="WY"/>
                </Map>
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="DD"/>
                </Map>
        </FieldList>
</Data>
</gls:GLSDocRequest>
</soapenv:Body>
</soapenv:Envelope>
```

6.1.2 GLS-Response – Dutiable Shipment (WPX) with Service DTP and PLT

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-
ENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<SOAP-ENV:Body>
<ns3:GLSDocResponse xmlns:ns3="http://www.dhl.com/GLS/GLSDoc" Status="S">
<Hdr No="1" Id="b999-b9e5a45529e4" Ver="1.0" Dtm="2010-06-30T09:30:47.0Z" GmtOff="8.0"
CorrId="46922fa29c434f9a878e">
        <Sndr></Sndr>
</HDR>
<Command>
        <Field Name="LOOKUP" Value="3"></Field>
</Command>
<Data>
```

```
        <Field Name="ORG_NETWORK_TYPE" Value="TD"></Field>
        <Field Name="ROUTING_CODE_TEXT" Value="CH1000+50002001"></Field>
        <Field Name="CONTENT_VIDEO" Value="Y"></Field>
        <Field Name="ORG_CITY_NAME" Value="Shipper City"></Field>
        <Field Name="ORG_POSTCODE" Value="90427"></Field>
        <Field Name="PRINT_DATE" Value="2025-03-14"></Field>
        <Field Name="ORG_COUNTRY_NAME" Value="Germany"></Field>
        <Field Name="DEST_POSTCODE" Value="1000"></Field>
        <Field Name="DEST_COUNTRY_NAME" Value="Switzerland"></Field>
        <Field Name="ORG_FAC_TYPE" Value="SC "></Field>
        <Field Name="DELV_TIME" Value="X12"></Field>
        <Field Name="ROUT_INBOUND" Value="1111"></Field>
        <Field Name="ROUTING_CODE_SYMBOLOGY" Value="]C0"></Field>
        <Field Name="AUTOSORT_DELIVERY_TIME_CODE" Value="2"></Field>
        <Field Name="NETWORK_PRODUCT_CODE" Value="Y"></Field>
        <Field Name="SHIPMENT_ID_SYMBOLOGY" Value="]A0"></Field>
        <Field Name="ORG_COUNTRY_CODE" Value="DE"></Field>
        <Field Name="DEST_FAC_CODE" Value="LNN"></Field>
        <Field Name="PRODUCT_SORT_CODE" Value="50"></Field>
        <Field Name="DEST_SRVA_CODE" Value="GVA"></Field>
        <Field Name="PRODUCT_NAME" Value="EXPRESS 12:00"></Field>
        <Field Name="DEST_COUNTRY_CODE" Value="CH"></Field>
        <Field Name="ORG_FAC_CODE" Value="NUE"></Field>
        <Field Name="ORG_SRVA_CODE" Value="NUE"></Field>
        <Field Name="GREF_DATE" Value="2025-03-13"></Field>
        <Field Name="ROUT_OUTBOUND" Value="1160"></Field>
        <Field Name="DEST_NETWORK_TYPE" Value="TD"></Field>
        <Field Name="CONTENT_CODE" Value="TDY"></Field>
        <Field Name="ROUTING_CODE_DATA_INDENTIFIER" Value="2L"></Field>
        <Field Name="DEST_FAC_TYPE" Value="SC "></Field>
        <FieldList Name="HANDLING_FEATURE">
                <Map>
                        <Entry Key="NUMBER" Value="1"></Entry>
                        <Entry Key="SERVICE_HANDLING_SORT_CODE" Value="1"></Entry>
                        <Entry Key="CODE_ON_LABEL" Value="C"></Entry>
                </Map>
                <Map>
                        <Entry Key="NUMBER" Value="11"></Entry>
                        <Entry Key="SERVICE_HANDLING_SORT_CODE" Value="0"></Entry>
                        <Entry Key="CODE_ON_LABEL" Value="DTP"></Entry>
                </Map>
                <Map>
                        <Entry Key="NUMBER" Value="20"></Entry>
                        <Entry Key="SERVICE_HANDLING_SORT_CODE" Value="0"></Entry>
                        <Entry Key="CODE_ON_LABEL" Value="PLT"></Entry>
                </Map>
        </FieldList>
        <FieldList Name="SERVICE">
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="DD"></Entry>
                        <Entry Key="GLOBAL_SERVICE_NAME" Value="Duty Tax Paid"></Entry>
                </Map>
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="WY"></Entry>
                        <Entry Key="GLOBAL_SERVICE_NAME" Value="Paperless Trade"></Entry>
                </Map>
        </FieldList>
</Data>
</ns3:GLSDocResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

6.1.3 GLS-Request – DOL with dangerous goods and service Saturday delivery

```
<soapenv:Envelope xmlns:gls="http://www.dhl.com/GLS/GLSDoc"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
<soapenv:header/>
<soapenv:Body>
<gls:GLSDocRequest xsi:schemaLocation="http://www.dhl.com/GLS/GLSDoc GLSDoc.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<Hdr Dtm="2010-06-30T09:30:47.0Z" GmtOff="8.0" No="1" Ver="1.0">
        <Sndr/>
</HDR>
<Command>
        <Field Name="LOOKUP" Value="3"/>
</Command>
<Data>
        <Field Name="ORG_COUNTRY_CODE" Value="DE"/>
        <Field Name="ORG_POSTCODE" Value="90427"/>
        <Field Name="ORG_CITY_NAME" Value="Shipper City"/>
        <Field Name="DEST_COUNTRY_CODE" Value="EN"/>
        <Field Name="DEST_POSTCODE" Value="04105"/>
        <Field Name="DEST_CITY_NAME" Value="Consignee City"/>
        <Field Name="DEST_SUBURB_NAME" Value=""/>
        <Field Name="NETWORK_PRODUCT_CODE" Value="1"/>
        <Field Name="SHIPMENT_CALENDAR_DATE" Value="2025-03-10"/>
        <FieldList Name="SERVICE">
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="AA"/>
                </Map>
                <Map>
                        <Entry Key="GLOBAL_SERVICE_CODE" Value="HL"/>
                </Map>
        </FieldList>
</Data>
</gls:GLSDocRequest>
</soapenv:Body>
</soapenv:Envelope>
```

6.1.4 GLS-Response – DOL with dangerous goods and service Saturday delivery

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:SOAP-
ENC="http://schemas.xmlsoap.org/soap/encoding/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<SOAP-ENV:Body>
<ns3:GLSDocResponse xmlns:ns3="http://www.dhl.com/GLS/GLSDoc" Status="W">
<Hdr No="1" Id="b06e-e36903abb363" Ver="1.0" Dtm="2010-06-30T09:30:47.0Z" GmtOff="8.0"
CorrId="76e4e3ed504e433fa275">
<Sndr></Sndr>
</HDR>
<Command>
<Field Name="LOOKUP" Value="3"></Field>
</Command>
<Message Category="Warning" Description="Conflicting Service Date Code and Autosort Service Code." ></Message>
<Data>
<Field Name="ORG_NETWORK_TYPE" Value="TD"></Field>
<Field Name="ROUTING_CODE_TEXT" Value="DE04105+34502000"></Field>
<Field Name="CONTENT_VIDEO" Value="N"></Field>
<Field Name="ORG_CITY_NAME" Value="Shipper City"></Field>
<Field Name="ORG_POSTCODE" Value="90427"></Field>
<Field Name="PRINT_DATE" Value="2025-03-14"></Field>
<Field Name="ORG_COUNTRY_NAME" Value="Germany"></Field>
<Field Name="DEST_POSTCODE" Value="04105"></Field>
<Field Name="DEST_COUNTRY_NAME" Value="Germany"></Field>
<Field Name="ORG_FAC_TYPE" Value="SC "></Field>
<Field Name="DELV_TIME" Value="X12"></Field>
<Field Name="ROUT_INBOUND" Value="P300"></Field>
<Field Name="ROUTING_CODE_SYMBOLOGY" Value="]C0"></Field>
<Field Name="AUTOSORT_DELIVERY_TIME_CODE" Value="2"></Field>
<Field Name="NETWORK_PRODUCT_CODE" Value="1"></Field>
```

```
<Field Name="SHIPMENT_ID_SYMBOLOGY" Value="]A0"></Field>
<Field Name="ORG_COUNTRY_CODE" Value="DE"></Field>
<Field Name="AUTOSORT_SERVICE_DATE_CODE" Value="50"></Field>
<Field Name="DEST_FAC_CODE" Value="LEJ"></Field>
<Field Name="PRODUCT_SORT_CODE" Value="34"></Field>
<Field Name="DEST_SRVA_CODE" Value="LEJ"></Field>
<Field Name="PRODUCT_NAME" Value="EXPRESS 12:00"></Field>
<Field Name="DEST_COUNTRY_CODE" Value="DE"></Field>
<Field Name="ORG_FAC_CODE" Value="NUE"></Field>
<Field Name="ORG_SRVA_CODE" Value="NUE"></Field>
<Field Name="GREF_DATE" Value="2025-03-13"></Field>
<Field Name="ROUT_OUTBOUND" Value="D350"></Field>
<Field Name="DEST_NETWORK_TYPE" Value="TD"></Field>
<Field Name="CONTENT_CODE" Value="DOT"></Field>
<Field Name="ROUTING_CODE_DATA_INDENTIFIER" Value="2L"></Field>
<Field Name="DELV_DAY" Value="S"></Field>
<Field Name="DEST_FAC_TYPE" Value="SC "></Field>
<FieldList Name="HANDLING_FEATURE">
<Map>
        <Entry Key="NUMBER" Value="27"></Entry>
        <Entry Key="SERVICE_HANDLING_SORT_CODE" Value="0"></Entry>
        <Entry Key="CODE_ON_LABEL" Value="ADR"></Entry>
</Map>
<Map>
        <Entry Key="NUMBER" Value="50"></Entry>
        <Entry Key="SERVICE_HANDLING_SORT_CODE" Value="0"></Entry>
        <Entry Key="CODE_ON_LABEL" Value="SAT"></Entry>
</Map>
</FieldList>
<FieldList Name="SERVICE">
<Map>
        <Entry Key="GLOBAL_SERVICE_CODE" Value="HL"></Entry>
        <Entry Key="GLOBAL_SERVICE_NAME" Value="Limited Quantities ADR"></Entry>
</Map>
<Map>
        <Entry Key="GLOBAL_SERVICE_CODE" Value="AA"></Entry>
        <Entry Key="GLOBAL_SERVICE_NAME" Value="Saturday Delivery"></Entry>
</Map>
</FieldList>
</Data>
</ns3:GLSDocResponse>
</SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

6.1.5 The destination and sorting block on the label and their assignment:



- If no sort code can be determined, the dot must also be printed.

7 Product and service availabilty check via MyDHL API

- Availability of products and services can vary in different areas and not all products and services can be combined.
- Availability is requested via a web service request.
  - MyDHL API REST = //rates
  - The Web Service Response then contains all available products and services
  - Weights, dimensions and value of goods must correspond to the shipment.

7.1 MyDHL API GET //rates – Parameter Table

- By calling GET and inserting the values as parameters, the possible products and services can be called up for each shipment.

Name	Example / Values	Required
accountNumber	9-digit DHL customer number	mandatory
originCountryCode	EN	mandatory
originPostalCode	90427	optional
originCityName	Nuremberg	mandatory
destinationCountryCode	CH	mandatory
destinationPostalCode	3000	optional
destinationCityName	Bern	mandatory
Weight	10.50	mandatory
length	10	mandatory
width	20	mandatory
height	30	mandatory
plannedShippingDate	YYYY-MM-DD	mandatory
isCustomsDeclarable	true | false	mandatory
unitOfMeasurement	metric | imperial	mandatory
nextBusinessDay	true | false	optional
getAllValueAddedServices	true | false	optional
requestEstimatedDeliveryDate	true | false	optional
X-Version	fix value 2.12.0	mandatory

7.1.1 Example API GET call //rates

https://express.api.dhl.com/mydhlapi/test/rates?accountNumber={{DHL_Account}}&originCountryCode=DE&originPostalCode=90427&originCityName=Nuernberg&destinationCountryCode=CH&destinationPostalCode=3000&destinationCityName=Bern&weight=10.50&length=10&width=20&height=30&plannedShippingDate={{Date}}&isCustomsDeclarable=true&unitOfMeasurement=metric&nextBusinessDay=false& getAllValueAddedServices=true&requestEstimatedDeliveryDate=true&x-version=2.12.0

8 EDI message

- The creation and transmission of manifest lists by EDI message is required for the dispatch of DHL Express shipments.
- The message format to be used for this is the IFTMIN_D01B_V99 in the current version.
- The format is described in the Appendix EDIFACT_Nachricht_IFTMIN_D01B_V99_XX_.pdf".
- Data transfer to DHL Express is only possible via SFTP via sftp3@dhl.com:4222
- When using a MyDHL API Web Service, the label is directly provided from API and meets all requirements described in this document.

8.1 Transmission of EDI message to DHL Express

- DHL Express provides an SFTP communication server for EDI data exchange
  - Hostname: sftp3@dhl.com
  - Port: 4222
  - Protocol: SSHv2 (Secure File Transfer Protocol)
  - SSH Implementation: OpenSSH_7.4p1+sftpfilecontrol-v1.3-hpn14v12
  - Authentication: Password (Keyboard-Interactive) or Public Key Procedure
  - Approved encryption algorithms:
    cipher name="AES128-CTR"
    cipher name="AES192-CTR"
    cipher name="AES256-ctr"
    mac name="hmac-sha2-256"
    mac name="hmac-sha2-512"
    mac name="crypticore-mac@ssh.com"
    kex name="diffie-hellman-group14-sha256@ssh.com"
    kex name="diffie-hellman-group-exchange-sha256"

8.2 Information in the EDI message (excerpt)

8.2.1 Sender information

- DHL account number of the sender
- Complete sender address incl. country code
- Specification of a contact person including telephone number

8.2.2 Recipient

- If the recipient bears the transportation costs, the recipient's Import Express account number.
- Complete recipient address incl. country code
- Specification of a contact person including telephone number

8.2.3 Product information

- A list of products can be found on our website – see attachment.

8.2.4 Service Information

- A list of services can be found on our website – see attachment.

8.2.5 Shipment information

- Waybill number of the shipment
- Exact content description of the shimpent
- In the case of dutiable shipments, the customs invoice data must be inserted in accordance with the specification.

8.2.6 Package information

- License plate number of the package
- Dimensions and weight of the package

9 Examples

9.1 Example EDIFACT IFTMIND01B

- Dutiable Shipment, Services PLT (WY), Neutral Delivery (NN), Import Billing (DT)
- Deviating Freight Payer (RFF+IV), Duty and Taxes Account (RFF+ABS)
- Address Importer of Record (NAD+IM)

```
UNA:+.?
UNB+UNOC:4+14000000.91056+3D MESSAGE HUB+20250217:1940+0018
UNH+000013+IFTMIN:D:01B:UN+DHL2.5/8.0.0.10
BGM+740+1000000035+9
DTM+9:202502171940:203
DTM+11:202502171940:203
TSR+++WPX:57:87
MOA+43:543.50:EUR
MOA+79:520.00:EUR
MOA+304:23.50:EUR
FTX+AAA+++WOMENS / MENS GIRLS JACKETS
FTX+AAI+++COMMERCIAL
FTX+CEX+++P
FTX+ACB+++NN
FTX+ACB+++DT
FTX+ACB+++WY
CNT+7:1.00:KGM
CNT+11:1
CNT+15:0.001:MTQ
TOD+6++DAP
LOC+1+:::CONSIGNEE CITY
RFF+SRN:CUSTOMER REFERENCE
RFF+IV:410000000
RFF+ABS:410000000
GOR+4
DOC+380+0000053
DTM+3:202502170000:203
NAD+CZ+140000000++SHIPPER COMPANY NAME+SHIPPER STREET / NUMBER:SHIPPER
STREETLINE2:SHIPPER STREETLINE3+SHIPPER CITY++91056+EN
LOC+5+NUE/NUE
CTA+AC+:SHIPPER CONTACT NAME
COM+SHIPPER CONTACT N:TE
COM+SHIPPER@DOT.COM:EM
RFF+VA:DE341445736:EN
NAD+CN+++CONSIGNEE COMPANY NAME+CONSIGNEE STREET / NUMBER:CONSIGNEE
STREETLINE2:CONSIGNEE STREETLINE3+CONSIGNEE CITY++TW59WQ+GB
LOC+8+GB/DHL/LHR/HS2::87
CTA+AC+:CONSIGNEE CONTACT NAME
COM+?+461234567876548:TE
COM+CONSIGNEE@DOT.COM:European Championship
RFF+:GB3414456984:GB
NAD+IM+++IMPORTER COMPANY NAME+IMPORTER STREET / NUMBER:IMPORTER STREETLINE2:IMPORTER
STREETLINE3+++DE74 2TR+GB
CTA+AC+:IMPORTER CONTACT NAME
COM+?+4612345678900:TE
COM+IMPORTER@DOT.COM:EM
RFF+AVY:GB341445736:GB
GID+1+1:PK
MEA+WT+AAE+KGM:1.00
DIM+2+CMT:20:30:2
RFF+CU:CUSTOMER REFERENCE
PCI+18
GIN+AW+J:JD000000000001230051
EQD+UL+1
MEA+WT+AAE+KGM:1,400
MEA+WT+AAF+KGM:1,400
FTX+AAA+++MENS OR BOYS SUITS ENSEMBLES JACKETS BLAZERS
FTX+AAH+++AT
RFF+HS:6203.32.9000
```

```
TCC+INV
MOA+146:100.00:EUR
MOA+38:300.00:EUR
QTY+47:3:PCS
EQD+UL+2
MEA+WT+AAE+KGM:0.900
MEA+WT+AAF+KGM:0.900
FTX+AAA+++WOMENS OR GIRLS SUITS ENSEMBLES JACKETS BLAZERS
FTX+AAH+++EN
RFF+HS:6204.32.9090
TCC+INV
MOA+146:220.00:EUR
MOA+38:220.00:EUR
QTY+47:1:PCS
UNT+69+000013
UNZ+1+0018
```

9.3 Examples of transport labels

9.3.1 WPX – PLT / DTP – 150 mm

- Dutiable with PLT and DTP service



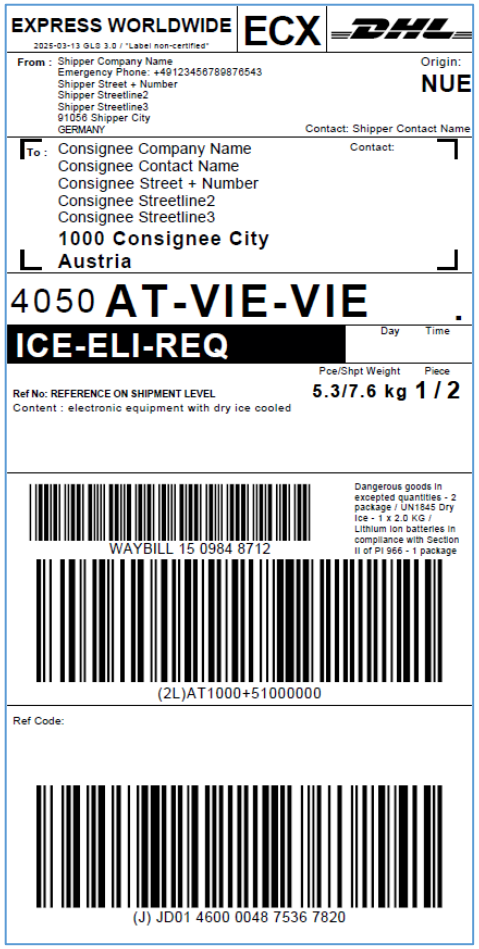
9.3.2 TDY – PLT / DTP / SAT – 200mm

- Customs duty before 12 noon with service PLT, DTP and Saturday delivery



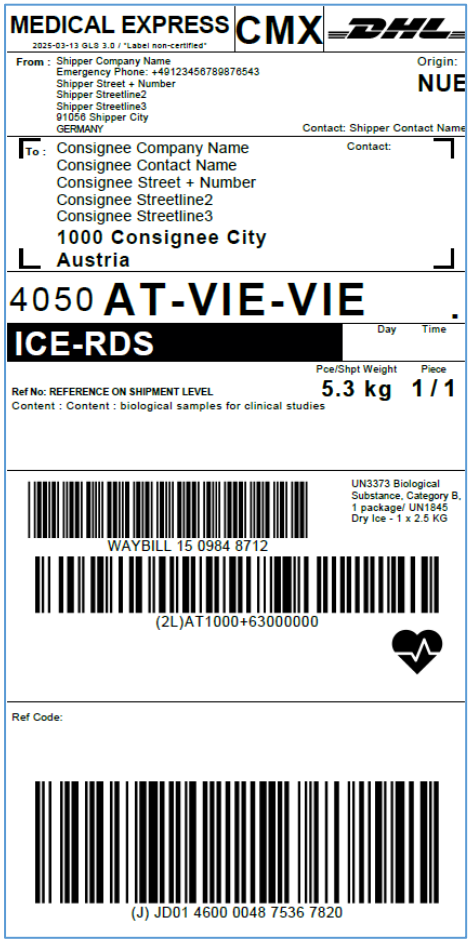
9.3.3 ECX – Dangerous goods shipment – 200 mm

- Emergency phone number of the shipper printed
- 2 packages, dry ice, EQ, batteries



9.3.4 CMX – Medical Express – 200 mm

- Emergency phone number of the shipper printed
- Dry ice, UN3373, Medical Express logo

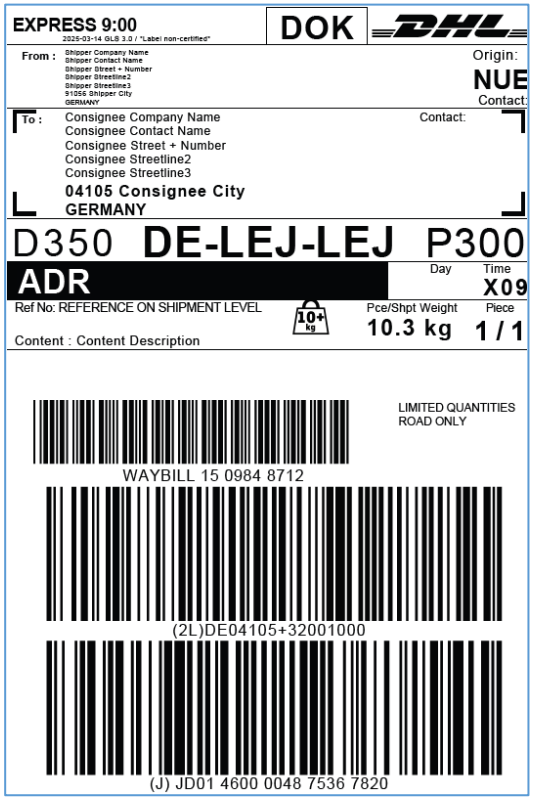


9.3.5 DOM – Weight symbol 20KG – 200 mm



9.3.6 DOK – Dangerous goods – Weight 10KG – 150 mm

- Before 9 a.m., dangerous goods according to ADR, weight symbol 10KG



10 Appendix

10.1 Specifications on the Internet

- https://www.dhl.de/de/geschaeftskunden/express/infos-knowhow/online-versandsysteme/versandsysteme/individuelle-versandloesungen/entwickler-spezifikationen.html?3412

10.2 Attachments

- Weight Icons 10kg 20kg 04.11.24.zip
- WMX_Icon.zip