Shipment Tracking (DHL Global Forwarding)

v 1.0.5

Division: DHL Global Forwarding

Best for:

- Providing access to the **shipment status** at any time
- **Business customers** of **DHL Global Forwarding**
- Air and Ocean **Freight** shipments

Region: Global
Used for: Tracking

Overview

Shipment Tracking API allows developer to request for shipment's information using shipment housebill number (DHL shipment number). API response includes:

- Shipment details
- Latest event & timestamp
- Historical events & timestamps

API also allows query using customer's reference, container number or masterbill number. To do that, use GET /housebill-number to get a list of housebill numbers for a given reference, like, customer's reference, container number or masterbill number. Use the housebill number list returned by the response to perform the next step, GET /shipment-tracking.

Please see API specification for more details.

Scope

The Shipment Tracking (DHL Global Forwarding) API provides access to tracking services relating to various products at DHL Global Forwarding.

Using the API

You must have an eligible housebill number (DHL shipment number) for the shipment and an API subscription key (this key needs to be either passed through HTTP request header).

Shipment Tracking (DHL Global Forwarding) - Environment: Production - Rate Limit: Starter API product is auto-approved. It is meant for users with low usage and for users to try out the API without having to wait for approval. Higher rate limit API product (Standard and Internal rate limit) requires approval from DHL team.

User Guide

Get Access

You must request credentials for any applications you develop

To register your app and get your API subscription keys:

1. Click My Apps on the portal website.
2. Click Add Developer App.
   The "Add App" form appears.
3. Complete the Add App form.
   You can select the APIs you want to access.
4. When you have completed the form, click the Add App button.
   The "Approved" label will appear next to the app name when the app has been approved.
   Note: Additional verification steps may be required for some applications.

Authentication

Every call to the API requires a subscription key. This key needs to be either passed through a query string parameter or specified in the request header (DHL-API-Key).

To view your API subscription keys:

1. From the My Apps screen, click on the name of your app.
    The Details screen appears.
2. If you have access to more than one API, click the name of the relevant API.
    Note: The APIs are listed under the "Credentials" section.
3. Click the **Show** link below the asterisks that is hiding the *Consumer Key*.
    The *Consumer Key* appears.

Environments

The addressable API base URL/URI environment is:

Environment	Description
https://api.dhl.com/dgff/transportation/shipment-tracking	Production environment

Rate limits

Rate limits protect the DHL infrastructure from suspicious requests that exceed defined thresholds.

The table below details the main request limits:

Service Level	Maximum calls	Approval
Starter	50 per day	Auto Approved

| Standard | 2500 per day | Verification and approval required |
| Internal | 5000 per day | Verification and approval required |

Please contact dgf.apisupport@dhl.com if you need higher throughput.

When the limit is reached, you will receive an HTTP Status code:

```
HTTP/1.1 429 Too Many Requests
```

Additional Information

Permitted HTTP methods

- GET for retrieving data

Message Definition

Below is the message structure of the API response.

Elements	Data Type	Length (min..max)	Cardinality	Description	Code List

			(min..max)		
ShipmentTracking	GROUP		1..1	Root Element	
MessageHeader	GROUP		1..1	Attributes describing the message	
Version	String		1..1	Version of the Schema e.g. 1.0	
SenderID	String		0..1	Included for possible future use	
ReceiverID	String		0..1	Included for possible future use	
MessageID	String		1..1	Unique ID	
CreationDateTime	DateTime		1..1	Message Creation DateTime Format: YYYY-MM-DDTHH:mm:ss	
Shipment	GROUP		1..1	Shipment Details	

HousebillNumber		String	1..35	1..1	Housebill Number	
HouseFileNumber		String	1..35	0..1	Internal Number	
Origin		GROUP		1..1	Origin Details	
	LocationCode	String	3..5	1..1	3-character Location Code	
	LocationName	String	1..35	0..1	Location Name	
	CountryCode	String	2	0..1	ISO 2-character country code	
Destination		GROUP		1..1	Destination Details	
	LocationCode	String	3..5	1..1	3-character Location Code	
	LocationName	String	1..35	0..1	Location Name	
	CountryCode	String	2	1..1	ISO 2-character country code	
ProductType		String	1..10	1..1	Product Type	ProductType
TotalPackages		Integer		1..1	Total number of packages	

TotalWeight		Decimal		1..1	Total Shipment weight (in kilograms)	
	@uom	String	1..3	1..1	Total Shipment weight uom Default to KGM	
TotalVolume		Decimal		1..1	Total Shipment volume (in cubic meters)	
	@uom	String	1..3	1..1	Total Shipment volume uom Default to MTQ	
ExpressBOLFlag		String		0..1	Applicable to Ocean	ExpressBOLFlag
ServiceProduct		String	1..50	0..1	Service/Product name	
DeliveryTerms		String	1..15	0..1	Delivery Terms	DeliveryTerms
GoodsDescription		String	1..40	0..1	Description of Goods	
Transport Units		GROUP		0..1	Container details	

	TransportUnitID		String	1..20	1..N	Container ID	
Routes			GROUP		0..1	Routing Details	
	Route		GROUP		1..N	Route Details	
	VesselName		String	1..35	0..1	Vessel Name for Ocean Freight	
	VoyageFlightNumber		String	1..10	0..1	Voyage number for Ocean Freight Flight Carrier and Number for Air Freight	
	AirportOfDeparture		GROUP		0..1	Applicable to Air Freight Airport of Departure	
		LocationCode	String	3..5	1..1	IATA code	
		LocationName	String	1..35	0..1	Location Name	

		CountryCode	String	2	0..1	ISO 2-character country code	
	AirportOfDestination		GROUP		0..1	Applicable to Air Freight Airport of Destination	
		LocationCode	String	3..5	1..1	IATA code	
		LocationName	String	1..35	0..1	Location Name	
		CountryCode	String	2	0..1	ISO 2-character country code	
	EstimatedDepartureDate		DateTime		1..1	Flight Estimated Date and Time of Departure Format: YYYY-MM-DDTHH:mm:ss	

		EstimatedArrivalDate	DateTime		1..1	Flight Estimated Date and Time of Arrival Format: YYYY-MM-DDTHH:mm:ss	
		PlaceOfAcceptance	GROUP		0..1	Applicable to Ocean Freight	
			LocationName	String	1..35	1..1	Place of Acceptance Name
		PortOfLoading	GROUP		0..1	Applicable to Ocean Freight	
			LocationName	String	1..35	1..1	Port Of Loading Name
		PortOfUnloading	GROUP		0..1	Applicable to Ocean Freight	
			LocationName	String	1..35	1..1	Port of Unloading Name
		PlaceOfDelivery	GROUP		0..1	Applicable to Ocean Freight	
			LocationName	String	1..35	1..1	Place of Delivery Name

Timestamps		GROUP		1..1	Shipment Status History	
	Timestamp	GROUP		1..N	Status Details	
	TimestampCode	String		0..1	Air Freight or Ocean Freight Status Code	EventAirCode EventOceanCode EventDomestic Code
	TimestampDescription	String		1..1	Textual description of status	
	TimestampDateTime	DateTime		1..1	Local Date Time Format: YYYY-MM-DDTHH:mm:ss	
	LocationName	String	1..35	0..1	Event location name	
	VoyageFlightNumber	String	1..10	0..1	Applicable to Air	

				Flight Carrier and Number	
TimestampText	String	1..35	0..1	Additional Information

Usage

Signatory name for POD / A32 | |

Code List

DeliveryTerms

EventAirCode

EventOceanCode

ExpressBOLFlag

Legal Terms

specifics for the use of Tracking Data

- Data requested and received via this Shipment Tracking (DHL Global Forwarding) API, such as transport status, estimated delivery time, including the tracking/housebill number is hereinafter referred to as "Tracking Data".
- Tracking Data is Confidential Information in the meaning of section "Communication" of the General Developer Portal Terms of Use. Other than set forth below You must not reveal and/or provide third parties with the Tracking Data and/or analyze, modify such data in any form and/or derive data/information especially for competitive purposes from it without our prior written consent.
- Tracking Data is provided to You and/or the entity you are authorized to represent (hereinafter "You"/"Your") under the prerequisite, that You retrieved the according housebill number (DHL shipment number) in compliance with the applicable law, especially in the field of data protection and competition law and that You use the Tracking Data solely for Your own or Your customers' legitimate tracking purposes.
- The use and submission of Tracking Data – including submission to any of Your subcontractors – shall always be in compliance with applicable laws and regulations, including – without limitation – data protection laws and competition/antitrust law.
- You shall not combine Tracking Data with advertisement or present it in a way that it could be regarded as advertisement.
- Unless otherwise agreed, You shall delete the housebill number (DHL shipment number) and Tracking Data which You received via the Shipment Tracking (DHL Global Forwarding) API 30 days after the delivery (of the shipment) to the recipient is completed.
- Tracking Data shall be used in accordance with the following specification:
  - Display "Delivered by Deutsche Post DHL Group" in text (minimum font size) as soon as it is presented/submitted to recipient
- Please note, that we provide free text boxes (e.g. for customer references) to improve the functionalities and user experience of the Shipment Tracking (DHL Global Forwarding) API. We explicitly ask you to refrain from sending any

personal or business critical data and/or information as free text. It is within your sole responsibility to ensure that the data or information you send does not infringe upon applicable law, esp. data protection law, and that you are entitled to use the respective data and/or information accordingly.

- If You are neither the shipper/sender nor the recipient of the DHL Global Forwarding shipment/s, the Tracking Data refers to,
  - You shall ensure, that you are authorized to act on behalf of the sender and/or the recipient;
  - You shall make the sender and/or the recipient aware of the restrictions set out in this User Guide just as the General Developer Portal Terms of Use;
  - You shall make the sender aware of the necessity to inform the recipient transparently about the processing of his/her personal data according to applicable data protection laws;
  - You shall inform the sender and/or recipient transparently that the use of Your Application may result in the disclosure of data being subject to postal secrecy and data protection laws to third parties (including You).

Reference Docs

Download API Spec

Shipment Tracking API allows developer to request for shipment's information.

[Base URL: api.dhl.com/dgff/transportation]

https

Authorize

Default

Endpoints

GET

`/shipment-tracking`

GET shipment tracking details using shipment's housebill number

GET

`/housebill-numbers`

GET housebill number(s) using references like customer's reference, container number or masterbill number.