

# Warehouse Management (DHL Supply Chain)

v 3.1.0

**Division:** DHL Supply Chain

**Best for:**

- Providing an interface to the **Warehouse Management System (WMS)**
- Customer-centric **contract logistics** solutions
- **Business customers** of **DHL Supply Chain**

**Region:** Global

**Used for:** Warehousing

## Overview

The Warehouse Management APIs provide an interface to the Supply Chain's Warehouse Management System (WMS) operations

## Scope

These APIs cover services provided by DHL Supply Chain. More specifically, the covered areas of functionality are:

- **Item Master** - Also known as an inventory master. The Item Master sends product information from the customer to the warehouse to enable the warehouse to receive deliveries of the product.
- **Inventory Management** - The Inventory Management API provides the customer with the current inventory levels and status to enable inventory reconciliation.
- **Outbound Logistics Order** - Also known as a sales order, pick ticket or stock transfer order. The Outbound Logistics Order is used as a request from the customer to the warehouse to pick/pack and dispatch goods.
- **Inbound Logistics Order** - Also known as Advance Shipping Notification (ASN), purchase order, goods receipt and return notification or shipment / delivery

advice. The Inbound Logistics Order notifies the warehouse that a stock replenishment delivery is scheduled or is on its way to the warehouse.

- Return Order - The Return Order deals with customer returns/an order that describes inventory that has been returned to the warehouse from a customer

## Using the API

WMS-specific implementation guidelines are available for each of the warehouse systems that support the Warehouse Management API. Please contact your local/regional DSC Business Unit IT lead at DSC to obtain a copy.

The API is accessed as REST API using OAuth 2.0 for authentication and authorization and JSON format for request and response messages. The API uses HTTPS (over SSL) protocol.

## Example Use Cases

DHL Supply Chain customers which would like to integrate their systems using standard APIs.

If you are not a DHL Supply Chain Customer, contact one of our experts [here](#).

## User Guide

### Get Access

To obtain the credentials please contact your DHL Supply Chain Representative. You will receive separate credentials for the Sandbox and Production environments.

If you are not a DHL Supply Chain Customer, please contact one of our experts [here](#).

# Environments

The addressable API base URL/URI environments are:

Environment	Description
<a href="https://dsc.api-sandbox.dhl.com/wms/">https://dsc.api-sandbox.dhl.com/wms/</a>	QA environment
<a href="https://dsc.api.dhl.com/wms/">https://dsc.api.dhl.com/wms/</a>	Production environment

## Rate limits

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

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

```
429: Too many requests.
```

Please contact [api.dsc@dhl.com](mailto:api.dsc@dhl.com) to get more information about it.

## Legal Terms

### Terms & conditions for DHL Supply Chain ("DSC") application programming interfaces ("APIs")

- By registering for the use of and/or using DHL Supply Chain's (DSC's) Application Programming Interfaces (APIs) including the services that are integrated via these APIs (such as Warehouse Management System (WMS), Transport Management System and Connected View) – the APIs and the

underlying services hereinafter collectively also referred to as “DSC APIs – each registrant and/or user of the DSC APIs (“You”) in addition to the General Developer Portal Terms of Use agree to these API terms & conditions (“API Terms & Conditions”) and all the terms included herein. These API Terms & Conditions are effective unless and until amended or terminated by DSC. Your rights under these API Terms & Conditions to use the DSC APIs (but not Your obligations and the restrictions set forth herein) will terminate automatically if You fail to comply with any of the terms herein or in the General Developer Portal Terms of Use. Should the terms of the General Developer Portal Terms of Use and these API Terms & Conditions conflict, these API Terms & Conditions shall govern.

- These API Terms & Conditions and the General Developer Portal Terms of Use govern Your usage of DSC APIs and, unless otherwise stated herein, do not replace and/or modify any other DSC terms and conditions, DSC transportation services agreements, DSC warehouse agreement and/or any other agreements, contracts or SOWs with DSC or DSC’s affiliates, which govern services or products provided to You by DSC (separately, each an “Agreement”).
- Notwithstanding the foregoing, You expressly acknowledge and agree that Your use of DSC APIs is governed by these API Terms & Conditions and the General Developer Portal Terms of Use, including but not limited to the General Developer Portal Terms of Use sections regarding limitation of liability, warranty, indemnification, termination, term, etc. and that solely with respect to Your use of DSC APIs these API Terms & Conditions and the General Developer Portal Terms of Use shall have preference over the terms and conditions in an Agreement, unless any terms and conditions in an Agreement specifically address the use of DSC APIs by You, in which case the specific terms and conditions of the Agreement shall prevail with respect to Your use of DSC APIs.
- You agree that for operational hours, maintenance, downtimes, incident management etc., as applied to the DSC APIs, the current version of the applicable service level agreement for such services (including but not limited to DHL LINK Global Business Service Level Agreement or as defined in the applicable Agreement) shall apply.
- You shall use the services and/or data that You receive via the DSC APIs only for legitimate business purposes, only in connection with DHL Supply Chain’s transportation and/or warehousing services, and in compliance with all applicable laws and regulations, including but not limited to, laws regarding the use of personal data.

- When data has been sent or received outside of DSC's business hours, the processing of data and/or execution of the services will start according to the terms and conditions set out in the applicable Agreement or, absent thereof, as soon as reasonably practicable.
- Neither DSC nor the contracting DSC entity, or any other DSC affiliate entity, is responsible for storing a record of any data (API-call or -request data or the actual contents of the data sets), that has been exchanged via the DSC APIs, unless expressly agreed upon in writing or in an applicable Agreement.
- These API Terms & Conditions and the General Developer Portal Terms of Use are governed by the law and courts defined in the Agreement. Any references in the General Developer Portal Terms of Use to German or European Union laws shall be enforceable according to the law and courts defined in the Agreement, and should such references to German or European laws be deemed unenforceable, the most similar legal concept under the laws and courts defined in the Agreement shall apply. Should no law or court be defined in the Agreement, these Terms & Conditions shall be governed according to the terms of the General Developer Portal Terms of Use.
- You acknowledge that material and information You may acquire about inventory management software programs owned or licensed by DSC, including (but not limited to) the WMS, staffing methods, financial or other accounting systems, fees, and DSC's other procedures and processes relating to the APIs or WMS ("Materials") are proprietary, confidential, and owned by DSC. Other than described herein, You shall have no additional rights to the Materials.
- Should the Agreement not include specific details regarding data fields for the DSC APIs, DSC shall determine which data fields need to be provided or filled by You, to use the DSC APIs, unless otherwise agreed.
- DSC shall have no liability to You should You make adjustments to the data in a WMS or to any other system (including but not limited to any records, logs, reports, etc. whether Yours or a third party's), based on the data from the DSC APIs. Without prejudice to any other terms included herein, You agree that DSC shall not be liable for any corresponding costs due to the failure of the DSC APIs, including but not limited to any costs or liabilities arising from third parties.

## Reference Docs

[Download API Spec](#)

The WMS APIs provide an interface to the DSC Warehouse Management System (WMS) operations.

#### Servers

<https://api-sandbox.dhl.com/wms/> (TEST) <https://api.dhl.com/wms/> (PROD)

#### Authorize

## Item Master

Also Known As An Inventory Master. The Item Master Sends Product Information From The Customer To The Warehouse To Enable The Warehouse To Receive Deliveries Of The Product.

### Endpoints

GET

/item

Retrieves Item information

POST

/item

Create an Item

PUT

/item

Update an Item

## Inventory Management

The Inventory Management API Provides The Customer With The Current Inventory Levels, Inventory Details And Its Status To Enable Inventory Reconciliation. Please Note That This API Relates To Single Inventory Records Only. If Full Inventory Information Is Required, Please Discuss This With Your DHL Supply Chain Contacts.

### Endpoints

GET

/inventory/detail

Get Inventory Details

GET

/inventory/summary

Get Inventory Summary

PUT

/inventory/batch-release

Inventory batch release process

## Outbound Logistics Order

The Outbound Logistics Order Is Used As A Request From The Customer To The Warehouse To Pick/Pack And Dispatch Goods. Also Known As A Sales Order, Pick Ticket Or Stock Transfer Order.

### Endpoints

GET

/order/list

Retrieves order list information

GET

/order

Retrieves order information

POST

/order

Create an order

PUT

/order

Update an Order

DELETE

/order

Delete an order

## Inbound Logistics Order

Also Known As Advance Shipping Notification (ASN), Purchase Order, Goods Receipt Notification Or Shipment / Delivery Advice. The Inbound Logistics Order Notifies The Warehouse That A Stock Replenishment Delivery Is Scheduled Or Is On Its Way To The Warehouse.

### Endpoints

GET

/asn/list

Retrieves shipment list information

GET

/asn/receipt

Retrieves shipment receipt information

POST

/asn/receipt

Create shipment receipt

PUT



`/asn/receipt`

Update a shipment receipt

DELETE

`/asn/receipt`

Delete shipment receipt information

## Return Order

The Return Order Deals With Customer Returns / An Order That Describes Inventory That Has Been Returned To The Warehouse From A Customer

### Endpoints

GET

`/asn/return`

Retrieves shipment return information

POST

`/asn/return`

Create shipment return

PUT

`/asn/return`

Update a shipment return

DELETE

`/asn/return`

Delete shipment return information

# Outbound PUSH APIs

## Endpoints

POST

`/asn/confirmation`

Outbound ASN Confirmation from WMS to Customer

POST

`/asn/confirmation/return`

Outbound Return Order Confirmation from WMS to Customer

POST

`/inventory/adjustment`

Outbound Inventory Adjustment from WMS to Customer

POST

`/orderstatuschange`

Outbound Order Status Change from WMS to Customer