

SHIPMENT TRACKING – UNIFIED PUSH API

101 GUIDE

DEFINITION

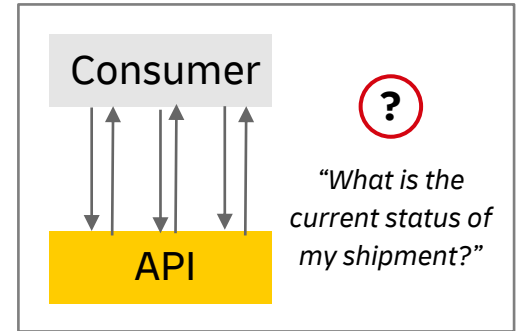
DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

A “Push” API proactively pushes updates to a user, so there is no need to make a call every time they want to check a status.

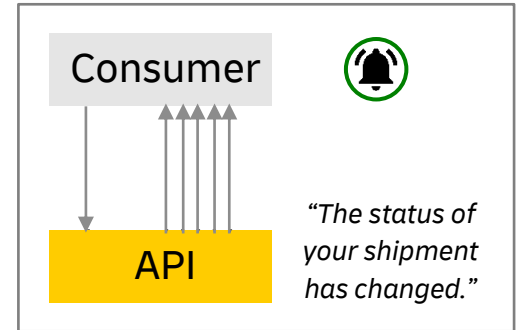
Different to other APIs, Shipment Tracking - Unified Push calls are composed in the “Body” section.

Although this API “unifies” the sources of shipment data information, it does not provide a “unified” structure in the response. Then, the response structure you can get from tracking a Post and Parcel Germany shipment can be different to the one of an Express shipment.

Standard (request response) API




Push API







ACCESS

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

Register in the DHL Developer Portal: <https://developer.dhl.com/user/register>

Deutsche Post  API Developer Portal

APIs  Documentation Help Center  EN  Register Login 

REGISTER

First name*


Last name*

Email address*


Username*


Company Name*

Country*

Your country 


Site language

English 




CREATE A DEVELOPER ACCOUNT

With an account, you can access more in-depth information and start managing your access to our APIs.



VERIFY YOUR DEVELOPER ACCOUNT

We'll send you an e-mail to verify your application. Open the email and click on the verify link. This will activate your account. (Check your spam folder if you can't find the e-mail message.)



CREATE YOUR APPLICATIONS

As soon as your account is active, you can start managing your access to the APIs. For example, you can request API keys for applications you've created. Note: additional verification steps may be required for some of our APIs.

ALREADY HAVE AN ACCOUNT?

Sign in here

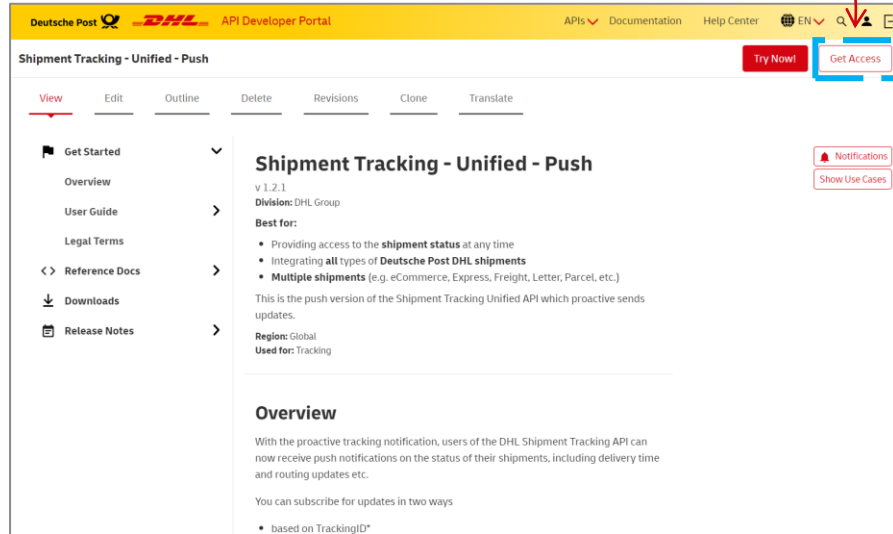
Log in as a DHL employee


ACCESS






DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

Go to the API documentation: <https://developer.dhl.com/api-reference/shipment-tracking-unified-push#get-started-section>

Click on the “Get Access” button:




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Shipment Tracking - Unified - Push


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Shipment Tracking - Unified - Push

v 1.2.1

Division: DHL Group

Best for:

- Providing access to the **shipment status** at any time
- Integrating **all types of Deutsche Post DHL shipments**
- Multiple shipments** (e.g. eCommerce, Express, Freight, Letter, Parcel, etc.)

This is the push version of the Shipment Tracking Unified API which proactive sends updates.

Region: Global

Used for: Tracking

[Notifications](#)

[Show Use Cases](#)

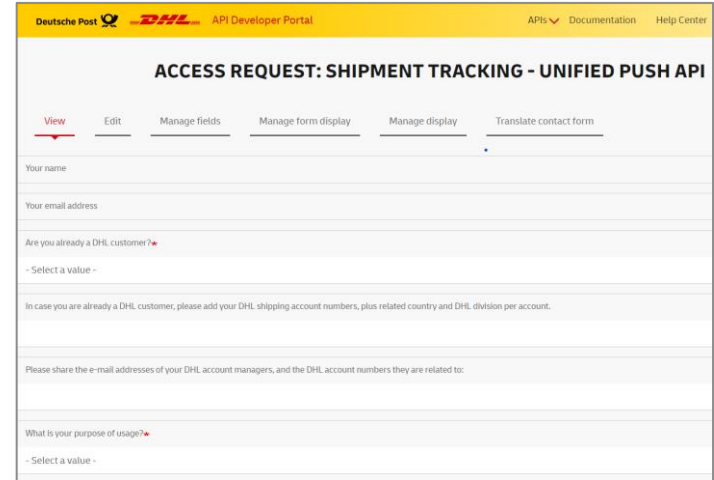
Overview


With the proactive tracking notification, users of the DHL Shipment Tracking API can now receive push notifications on the status of their shipments, including delivery time and routing updates etc.


You can subscribe for updates in two ways

- based on TrackingID*

Fill out the form and send



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ACCESS REQUEST: SHIPMENT TRACKING - UNIFIED PUSH API

[View](#) [Edit](#) [Manage fields](#) [Manage form display](#) [Manage display](#) [Translate contact form](#)

Your name


Your email address

Are you already a DHL customer? 

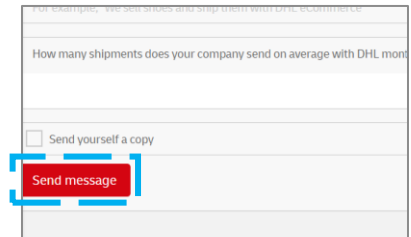
- Select a value -

In case you are already a DHL customer, please add your DHL shipping account numbers, plus related country and DHL division per account.

Please share the e-mail addresses of your DHL account managers, and the DHL account numbers they are related to:

What is your purpose of usage? 

- Select a value -



For validation, we send emails and SMS directly with DHL eCommerce

How many shipments does your company send on average with DHL monthly?

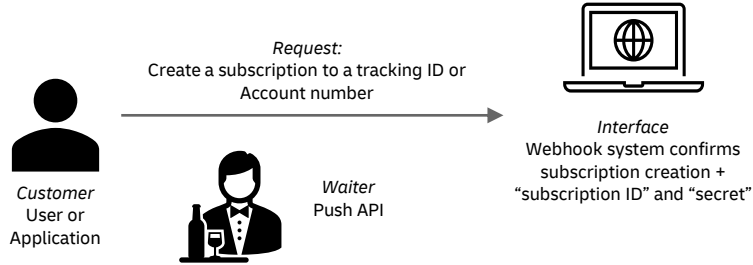
☐ Send yourself a copy

[Send message](#)

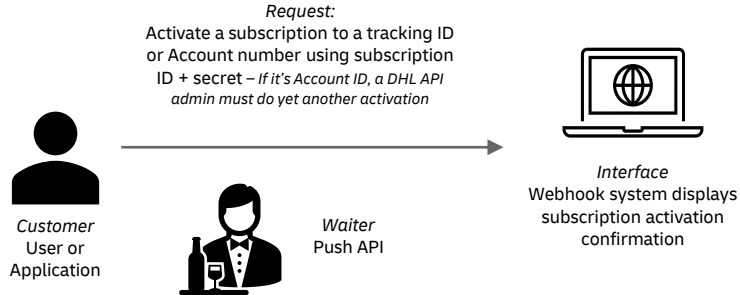
USE FLOW

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

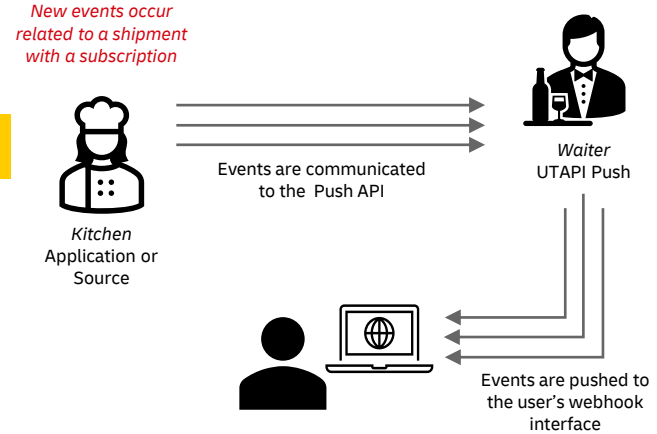
1



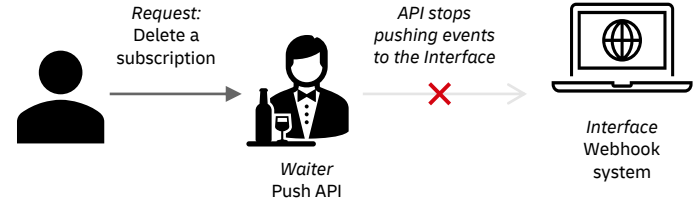
2



3



4



THE “WHY” OF THE API

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

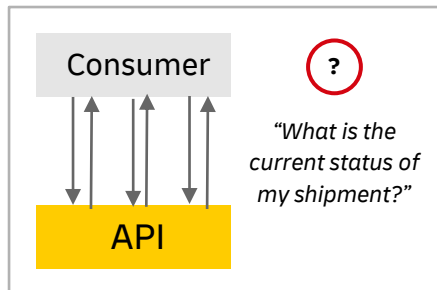
Customers, merchants and marketplaces always want the most up-to-date information about their shipments. With the regular Unified Tracking API, they must send a request every time they want to know the status.

Some users want updated information up to the minute, and they bombard the API with requests, quickly consuming their quota. This process is costly and not the most efficient.

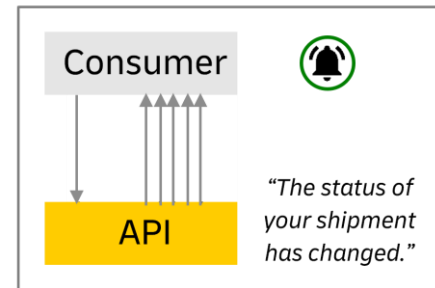
The Unified Tracking Push API solves this issue by proactively sending notifications to the user whenever there's a new event update related to a subscribed shipment.

In this way, users don't need to program to knock our door several times a day; but simply wait until we send them the new notifications, and then they can program their systems to work with them.

Standard (request response) API

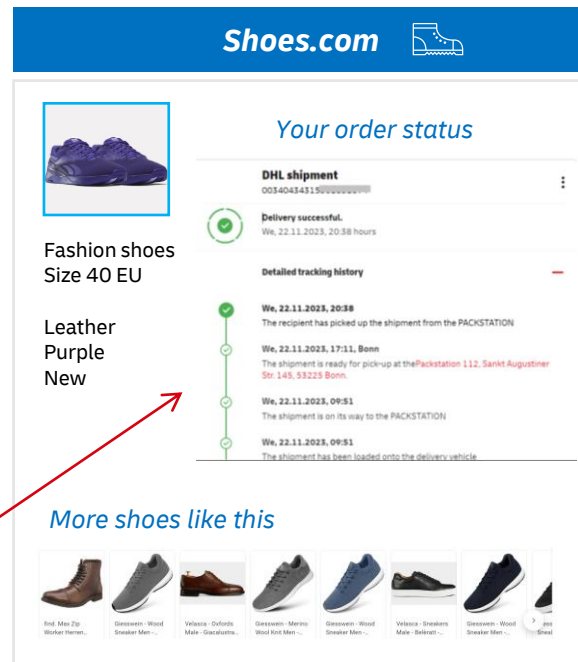
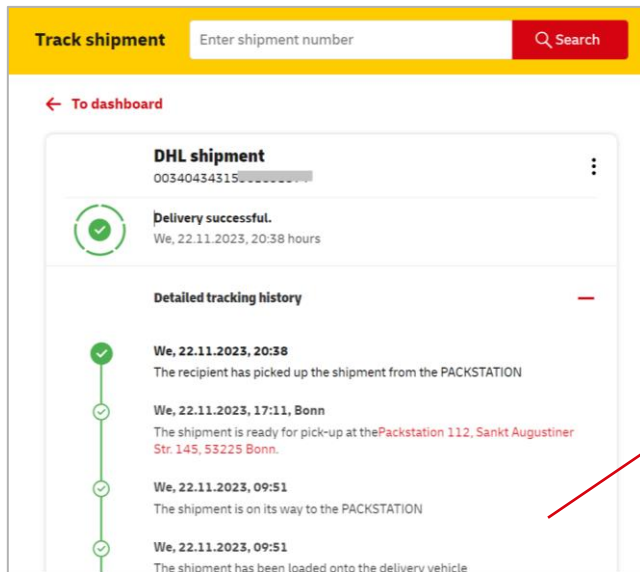


Push API



DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

Our Push API makes this possible by providing the event status data to the merchants or marketplaces in a machine-readable format that can be easily adapted to their user interface.



SCOPE

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

This Push API does not support every single kind of shipment and service offered by the DHL group.

The list and the supported services are constantly updated in [the documentation's Scope](#). Please check the most recent version on the website.

Service availability as of June of 2025:

DHL Parcel Germany

Subscription by shipment ID: No
Subscription by account ID: No

DHL Post Germany (*post-de*)

Subscription by shipment ID: Yes*
Subscription by account ID: No

DHL Global Forwarding SBR** (*dgf*)

Subscription by shipment ID: Yes
Subscription by account ID: Yes

DHL Global Forwarding Sameday (*sameday*)

Subscription by shipment ID: Yes
Subscription by account ID: Yes

DHL Express

Subscription by shipment ID: No
Subscription by account ID: No

DHL Parcel Connect (*ecommerce-europe*)

Subscription by shipment ID: Yes
Subscription by account ID: Yes

DHL eCommerce BENELUX (*parcel-nl*)

Subscription by shipment ID: Yes
Subscription by account ID: No

PPL (DHL eCommerce Czechia) (*ecommerce-ppl*)

Subscription by shipment ID: Yes
Subscription by account ID: No

DHL eCommerce UK (*parcel-uk*)

Subscription by shipment ID: Yes
Subscription by account ID: Yes

DHL eCommerce Iberia (ES, PT)

Subscription by shipment ID: No
Subscription by account ID: No

DHL eCommerce Americas (*ecommerce*)

Subscription by shipment ID: Yes
Subscription by account ID: Yes

DHL eCommerce APAC (*ecommerce-apac*)

Subscription by shipment ID: Yes
Subscription by account ID: No

DHL Freight (*freight*)

Subscription by shipment ID: Yes
Subscription by account ID: Yes

DHL Supply Chain

Subscription by shipment ID: No
Subscription by account ID: No

*The API supports Registered mail. Internetmarke is not included.

→ Registered mail is the service customers get at the DHL service points; Internetmarke are stamps customers can print at home and put directly on envelopes.

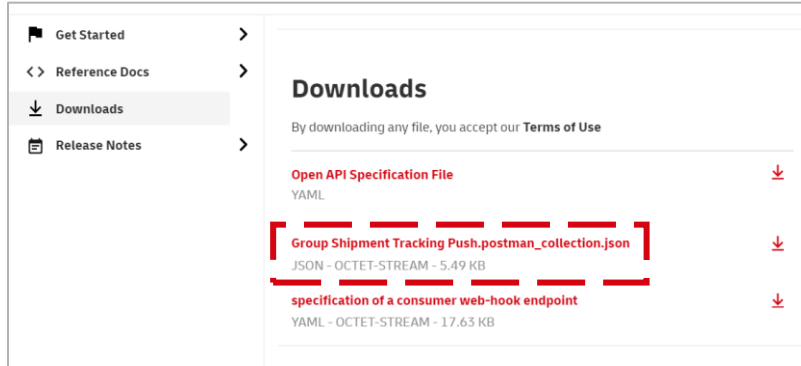
**SBR: Star Broker

SETTING UP THE API

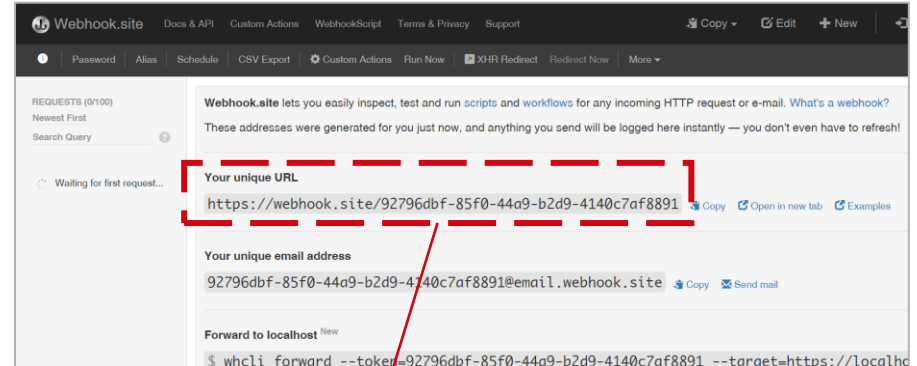
DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

In order to directly and easily test the API, please install the provided Postman collection on the API documentation:

<https://developer.dhl.com/api-reference/shipment-tracking-unified-push#downloads-section>



A user will also need to have a system to connect the Push API, where the responses from the API can be fed into. For testing purposes, the following public website can be used: <https://webhook.site/>. Please note that webhook.site is not related to the DHL Group. It should not be used for production usage, but for short tests whose subscriptions would be deleted on the same day.



The given URL in this section will need to be provided later when doing the Create Request to the API

ENVIRONMENTS

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

An Environment is an instance where a given system works. For APIs, there are often Production, Acceptance, Test and Development environments, all living at once.

This Push API does only offer the Production environment to users, they will use it for their regular operations and must use it as well for user testing in case it's needed.

Even though there are more environments, these are restricted to developers-use only.

Production Environment URL/URI address:

<https://api-eu.dhl.com/tracking/push/v1>

ENDPOINTS

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

An Endpoint is a specific “location” within an API that can accept requests and send back responses. UTAPI PUSH has multiple Endpoints:

- POST** create subscription (by Account) —→ This endpoint creates a subscription request for an account ID
- POST** create subscription (by Shipment) —→ This endpoint creates a subscription request for a shipment ID
- POST** activate — — — — —→ This endpoint activates a previously requested creation of account or shipment ID
- GET** get subscriptions — — — — —→ This endpoint gets all subscriptions (account or shipment) related to an API key
- GET** get subscription details — — — — —→ This endpoint gets all subscription details related to one subscription ID
- DEL** delete subscription Copy — — — — —→ This endpoint deletes a subscription, be it account ID or shipment ID

Make sure the right Endpoint is selected, otherwise the call won't be successful



AUTHENTICATION

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

Different to the regular Shipment Tracking – Unified API, for the Push solution the users will need initially their API key to create a subscription. Then they will need the “subscription ID” and a “secret” to activate a subscription. More details on how to use the API in the following slides.

Authentication for Subscription Creation:

Group Shipment Tracking Push / create subscription (by Shipment)

POST https://api-eu.dhl.com/tracking/push/v1/subscription

Params	Authorization	Headers (9)	Body	Pre-request Script	Tests	Settings
<input checked="" type="checkbox"/>	Host	<calculated when request is sent>				
<input checked="" type="checkbox"/>	User-Agent	PostmanRuntime/7.36.1				
<input checked="" type="checkbox"/>	Accept	/*				
<input checked="" type="checkbox"/>	Accept-Encoding	gzip, deflate, br				
<input checked="" type="checkbox"/>	Connection	keep-alive				
<input checked="" type="checkbox"/>	DHL-API-Key	((API_KEY))				
	Key	Value				

Header text must be exactly “DHL-API-Key”

Request Details

POST https://webhook.site/eb07b7e3-cafc-4c55-a24c-5468be2428eb

Host 34.107.84.18 Whole Shodan Netfy Censys

Date 01/12/2024 3:04:06 PM (10 minutes ago)

Size 258 bytes

Time 0.001 sec

ID 5bf37cb8-fc0a-4fb5-a1eb-3c5b2a447b08

Query strings (empty)

Files

Headers

connection	close
host	webhook.site
content-type	application/json
dhl-api-hook-secret	z1sxaJ2Zzeqk0Ezh3k5qme
correlation-id	4c4e3306-c0e3-466a-98d8-2e5f18c60009
content-length	258

Form values (empty)

Raw Content

```
{  "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/aa16f3e7-5f32-4665-8583-051bbebcb44f",  "scope": "subscription.validate",  "expires": "2024-01-17T14:04:05.810855158Z",  "secret": "z1sxaJ2Zzeqk0Ezh3k5qme",  "note": "Subscription validation token provided."}
```

Authentication for Subscription Activation:

Group Shipment Tracking Push / activate

POST https://api-eu.dhl.com/tracking/push/v1/subscription/aa16f3e7-5f32-4665-8583-051bbebcb44f

Params	Authorization	Headers (9)	Body	Pre-request Script	Tests	Settings
<input checked="" type="checkbox"/>	Host	<calculated when request is sent>				
<input checked="" type="checkbox"/>	User-Agent	PostmanRuntime/7.36.1				
<input checked="" type="checkbox"/>	Accept	/*				
<input checked="" type="checkbox"/>	Accept-Encoding	gzip, deflate, br				
<input checked="" type="checkbox"/>	Connection	keep-alive				
<input checked="" type="checkbox"/>	DHL-API-Hook-Secret	z1sxaJ2Zzeqk0Ezh3k5qme				The S
<input checked="" type="checkbox"/>	DHL-API-Key	((API_KEY))				https:

AUTHENTICATION

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

When creating a subscription request, you may also add additional lines to provide a Header authentication (commonly an API key to your webhook system – Please note that such header and token are different to your DHL Developer Account app API key).

Below examples of the Body text subscription creation request with the additional authentication lines:

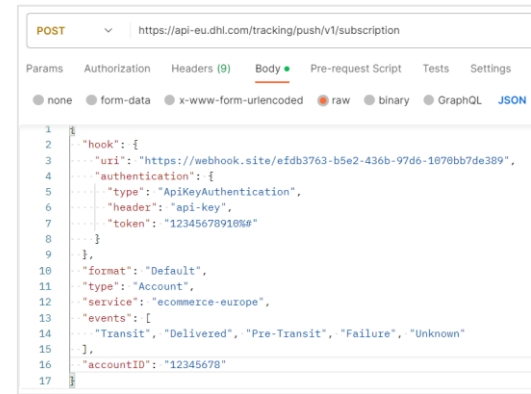
Account ID subscription creation:

```
{
  "hook": {
    "uri": "ADD HERE THE URL OF YOUR WEBHOOK SYSTEM",
    "authentication": {
      "type": "ApiKeyAuthentication",
      "header": "ADD HERE YOUR HEADER STRING",
      "token": "ADD HERE YOUR TOKEN STRING"
    }
  },
  "format": "Default",
  "type": "Account",
  "service": "ADD HERE THE SERVICE",
  "events": [
    "Transit", "Delivered", "Pre-Transit", "Failure", "Unknown"
  ],
  "accountID": "ADD HERE THE ACCOUNT ID"
}
```

Shipment ID subscription creation:

```
{
  "hook": {
    "uri": "ADD HERE YOUR WEBHOOK SYSTEM URL",
    "authentication": {
      "type": "ApiKeyAuthentication",
      "header": "ADD HERE YOUR HEADER STRING",
      "token": "ADD HERE YOUR TOKEN STRING"
    }
  },
  "format": "Default",
  "type": "Shipment",
  "service": "ADD HERE THE SERVICE",
  "events": [
    "Transit", "Delivered", "Pre-Transit", "Failure", "Unknown"
  ],
  "shipmentIDs": ["ADD HERE YOUR SHIPMENT ID"]
}
```

Example on Postman:



WEBHOOK SETUP PER ENDPOINT

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

1a

POST call:
Create a subscription
by account ID

→ You will get a
“subscription ID” and
a “secret”

2

POST call:
Activate a subscription
with the subscription
ID and the secret

→ You will get a pre-
approval message, still
need a business
approval

2a

The DHL Push API
managers will get a
notification about your
account subscription

→ They will Approve or
Reject your subscription
request

2b

The DHL Push API
managers approve
your request

→ You will receive a
webhook message
confirmation of
subscription ready for
notifications

3

Receive push
messages

→ Every time there is a
new event of a
shipment related to the
account, a new push
message will arrive to
the Webhook system

1b

POST call:
Create a subscription
by shipment ID

→ You will get a
“subscription ID” and
a “secret”

2

POST call:
Activate a subscription
with the subscription
ID and the secret

→ Your subscription is
now activated

3

Receive push
messages

→ Every time there is a
new event of the
shipment, a new push
message will arrive to
the Webhook system

CREATE A SUBSCRIPTION BY ACCOUNT ID

CREATE SUBSCRIPTION BY ACCOUNT ID

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

The Parameters define variable elements of a URL path when calling an API. They can be query parameters, headers, or request body. Different to regular APIs, our parameters won't be filled in at the "Parameters" section but directly editing the "Body" and URL of the call.

POST ▼ https://api-eu.dhl.com/tracking/push/v1/subscription

Params Authorization Headers (9) Body ● Pre-request Script

Query Params

Key	Value
Key	Value

Note that the "Params" section is empty.

☒ DHL-API-Key {{API_KEY}}

Remember to fill in the API key in the "Headers" section



Please note:

API Key ≠ Webhook URL ≠ Secret ≠ accountID ≠ shipmentID ≠ subscription ID

1 Create the subscription

POST ▼ https://api-eu.dhl.com/tracking/push/v1/subscription

Params Headers (1) Body ●

● none ● form-data ● x-www-form-urlencoded ● raw ● binary ● GraphQL JSON ▼

```
1 {
2   "hook": {
3     "uri": "ADD HERE YOUR WEBHOOK URL"
4   },
5   "format": "Default",
6   "type": "Account",
7   "service": "ecommerce-europe",
8   "events": [
9     "Transit", "Delivered", "Pre-Transit", "Failure", "Unknown"
10  ],
11  "accountID": "12345678"
12 }
13
14 }
```

The hook URL must be replaced with the webhook system. Refer to slide 8

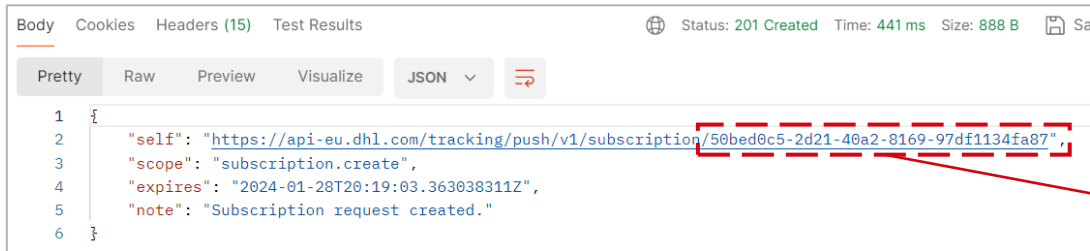
The service value must be replaced. Possible options:
dgf, sameday, ecommerce-europe, parcel-uk, freight, ecommerce

The accountID must be replaced. This value should be known by the customer.

CREATE SUBSCRIPTION BY ACCOUNT ID

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

2

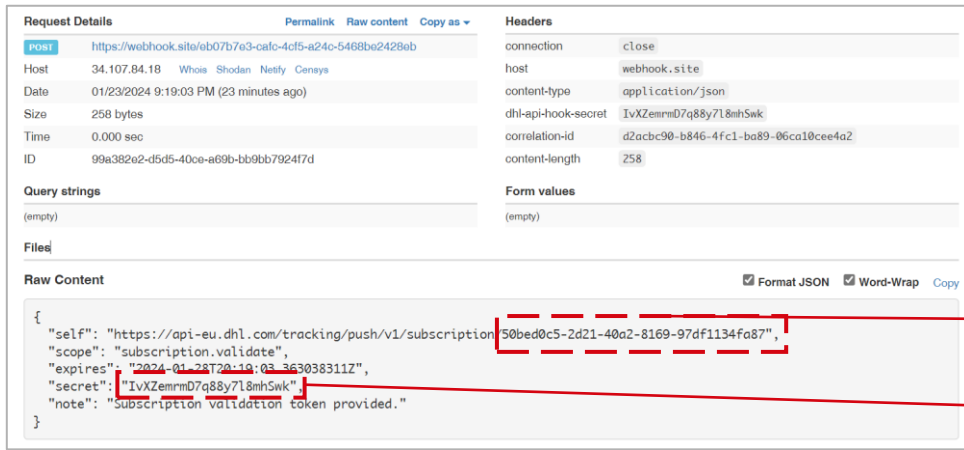


```
1 {
2   "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/50bed0c5-2d21-40a2-8169-97df1134fa87",
3   "scope": "subscription.create",
4   "expires": "2024-01-28T20:19:03.363038311Z",
5   "note": "Subscription request created."
6 }
```

This how the response from the API will look like after creating a request to create a subscription by Account ID

This is the subscription ID, it will also appear in the hook website

3



Request Details

Method: POST | URL: https://webhook.site/eb07b7e3-cafc-4cf5-a24c-5468be2428eb

Host: 34.107.84.18 | Date: 01/23/2024 9:19:03 PM (23 minutes ago) | Size: 258 bytes | Time: 0.000 sec | ID: 99a382e2-d5d5-40ca-a69b-bb9bb7924f7d

Headers

connection	close
host	webhook.site
content-type	application/json
dhl-api-hook-secret	IvXZemrmD7q88y7l8mhSwk
correlation-id	d2acbc90-b846-4fc1-ba89-06ca10cee4a2
content-length	258

Form values

(empty)

Query strings

(empty)

Files

(empty)

Raw Content

```
{
  "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/50bed0c5-2d21-40a2-8169-97df1134fa87",
  "scope": "subscription.validate",
  "expires": "2024-01-28T20:19:03.363038311Z",
  "secret": "IvXZemrmD7q88y7l8mhSwk",
  "note": "Subscription validation token provided."
}
```

This how the response from the API will look like in the Webhook system after creating an Account ID subscription request

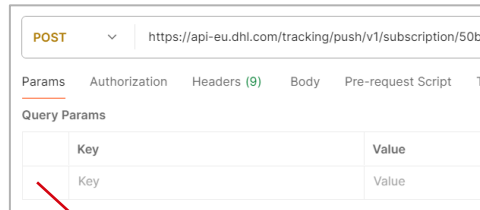
This is the subscription ID, it will need to be provided when activating the subscription

This is the “secret” for this subscription request, it will need to be provided when activating the subscription

CREATE SUBSCRIPTION BY ACCOUNT ID

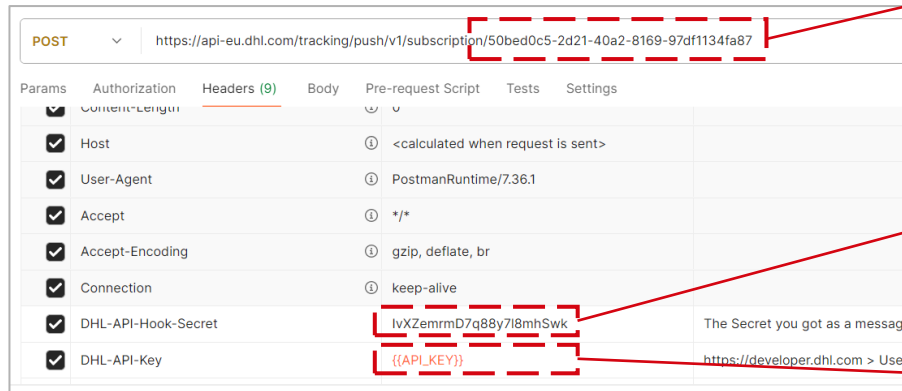
DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

4 Activate a subscription



Key	Value

Note that the “Params” section is empty.



Header	Value
Content-Length	<calculated when request is sent>
Host	
User-Agent	PostmanRuntime/7.36.1
Accept	*/*
Accept-Encoding	gzip, deflate, br
Connection	keep-alive
DHL-API-Hook-Secret	lvXZemrmD7q88y7l8mhSwk
DHL-API-Key	{{API_KEY}}

The subscription ID obtained before must be filled in here, in the URL section

The “secret” value obtained before must be filled in here, in the “DHL-API-Hook-Secret” section

Remember to fill in the API key

Nothing else should be filled in the “Body” section, after filling the subscription ID and the Secret, click on “Send”

CREATE SUBSCRIPTION BY ACCOUNT ID

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

5

This how the response from the API will look like after requesting to activate a subscription by account ID

```
1 {
2   "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/50bed0c5-2d21-40a2-8169-97df1134fa87",
3   "scope": "subscription.activate",
4   "expires": "2025-01-22T22:05:51.523845584Z",
5   "note": "Subscription activated, waiting for business approval."
6 }
```

This is the subscription ID, it will also appear in the hook website

The activation of a subscription for an account ID will require yet another activation from an API admin. Once step 4 has been successfully completed, we will receive a notification of your subscription to give the final business Approval. If your subscription hasn't been approved in more than 3 business days or rejected, feel free to open a ticket on the DHL Developer Portal Help Center

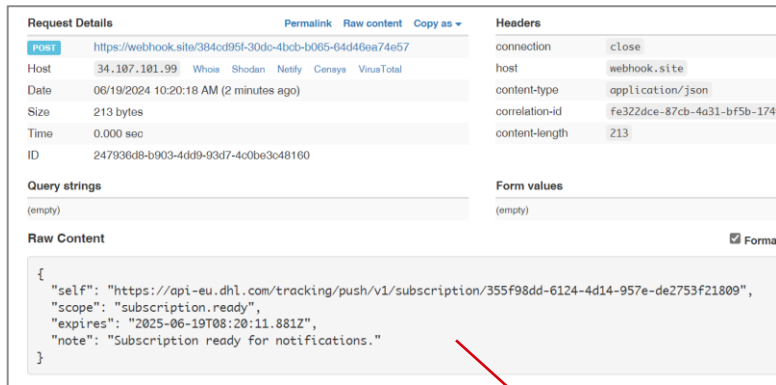
Trying to repeat a call for the activation of a subscription ID and secret that has been sent before will result in an error

CREATE SUBSCRIPTION BY ACCOUNT ID

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

6

Once we have approved your request, you will receive a notification in your webhook system that looks like this:



The screenshot displays a webhooks management interface. The 'Request Details' section on the left shows a POST request to a specific URL, with fields for Host, Date, Size, Time, and ID. The 'Headers' section on the right lists connection, host, content-type, correlation-id, and content-length. The 'Raw Content' section at the bottom shows a JSON response. A red arrow points from the JSON response to the explanatory text below.

Request Details		Permalink	Raw content	Copy as ▼	Headers
POST	https://webhook.site/384cd95f-30dc-4bcb-b065-64d46ea74e57				connection: close
Host	34.107.101.99 Whois Shodan Nestly Censys VirusTotal				host: webhook.site
Date	06/19/2024 10:20:18 AM (2 minutes ago)				content-type: application/json
Size	213 bytes				correlation-id: fe322dce-87cb-4a31-bf5b-1749
Time	0.000 sec				content-length: 213
ID	247936d8-b903-4dd9-93d7-4c0be3c48160				
Query strings					Form values
(empty)					(empty)
Raw Content					<input checked="" type="checkbox"/> Format
<pre>{ "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/355f98dd-6124-4d14-957e-de2753f21809", "scope": "subscription.ready", "expires": "2025-06-19T08:20:11.881Z", "note": "Subscription ready for notifications." }</pre>					

This how the response looks on the webhook system. If everything is correct, the push messages will start arriving as soon as there's a change in a related shipment

7

Once your subscription activation is completed, you will start receiving shipment updates related to your account number as soon as they are available in our databases

CREATE A SUBSCRIPTION BY SHIPMENT ID

CREATE SUBSCRIPTION BY SHIPMENT ID

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

POST https://api-eu.dhl.com/tracking/push/v1/subscription

Params Authorization Headers (9) Body **Pre-request Script**

Query Params

Key	Value
Key	Value

Note that the "Params" section is empty.

☒ DHL-API-Key {{API_KEY}}

Remember to fill in the API key in the "Headers" section



Please note:

API Key ≠ Webhook URL ≠ Secret ≠ accountID ≠ shipmentID ≠ subscription ID

1

Create the subscription

POST https://api-eu.dhl.com/tracking/push/v1/subscription

Params Authorization Headers (9) **Body** Pre-request Script Tests Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** ▼

```
1 {
2   "hook": {
3     "uri": "https://webhook.site/384cd95f-30dc-4bcb-b065-64d46ea74e57",
4     "authentication": {
5       "type": "ApiKeyAuthentication",
6       "header": "HeaderTest",
7       "token": "HeaderToken"
8     }
9   },
10  "format": "Default",
11  "type": "Shipment",
12  "service": "parcel-uk",
13  "events": [
14    "Transit", "Delivered", "Pre-Transit", "Failure", "Unknown"
15  ],
16  "shipmentIDs": ["12345678"]
17 }
18
```

The hook URL must be replaced with the webhook system. Refer to slide 8

The service value must be replaced. Possible options:
sameday, dgf, post-de, ecommerce-europe, parcel-nl, ecommerce-ppl, parcel-uk, freight, ecommerce, ecommerce-apac

The shipmentID must be replaced. This value should be known by the customer.

CREATE SUBSCRIPTION BY SHIPMENT ID

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

Multiple shipments subscription request

It is possible to create a shipment ID subscription with up to 10 shipment IDs at the time.

Please note that all the shipments added in the query must belong to the same service.

It's not possible to create a Shipment ID subscription request for more than one service. A new request must be made if there is the need of subscribing for more than 10 shipments, or if the shipments belong to different services.

Request example:

```
1  {
2    .. "hook": {
3      .. "uri": "https://webhook.site/384cd95f-30dc-4bcb-b065-64d46ea74e57",
4      .. "authentication": {
5        .. "type": "ApiKeyAuthentication",
6        .. "header": "ApiKey",
7        .. "token": "zxF9V6Lme9wN"
8      }
9    },
10   .. "format": "Default",
11   .. "type": "Shipment",
12   .. "service": "sameday",
13   .. "events": [
14     .. "Transit"
15   ],
16   .. "shipmentIDs": [
17     .. "12345678",
18     .. "23456789",
19     .. "34567890",
20     .. "45678901",
21     .. "93828585"
22   ]
23 }
```

CREATE SUBSCRIPTION BY SHIPMENT ID

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

2

The screenshot shows a Postman interface with the 'Body' tab selected. The response is in JSON format, showing a successful subscription creation. The status is 201 Created, and the response size is 888 B. The JSON body contains the following fields:

```
{
  "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/aa16f3e7-5f32-4665-8583-051bbebcb44f",
  "scope": "subscription.create",
  "expires": "2024-01-17T14:04:05.810855158Z",
  "note": "Subscription request created."
}
```

The subscription ID, `aa16f3e7-5f32-4665-8583-051bbebcb44f`, is highlighted with a red dashed box.

This how the response from the API will look like in Postman after creating a request to create a subscription by Shipment ID

This is the subscription ID, it will also appear in the hook website

3

The screenshot shows a Webhook system interface with the 'Request Details' tab selected. The request is a POST to `https://webhook.site/eb07b7e3-cafc-4cf5-a24c-5408ba2428eb`. The status is 201 Created, and the response size is 888 B. The JSON body contains the following fields:

```
{
  "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/aa16f3e7-5f32-4665-8583-051bbebcb44f",
  "scope": "subscription.validate",
  "expires": "2024-01-17T14:04:05.810855158Z",
  "secret": "z1sxaJZ2Zeqk0EzH3k5qme",
  "note": "Subscription validation token provided."
}
```

The subscription ID, `aa16f3e7-5f32-4665-8583-051bbebcb44f`, is highlighted with a red dashed box. The secret, `z1sxaJZ2Zeqk0EzH3k5qme`, is also highlighted with a red dashed box.

This how the response from the API will look like in the Webhook system after creating a Shipment ID subscription request

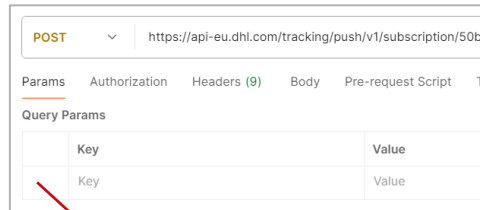
This is the subscription ID; it will need to be provided when activating the subscription

This is the "secret" for this subscription request, it will need to be provided when activating the subscription

CREATE SUBSCRIPTION BY SHIPMENT ID

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

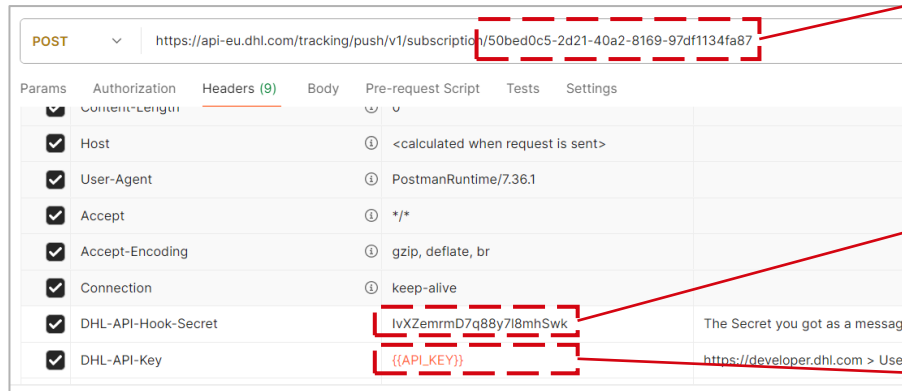
4 Activate the subscription



The screenshot shows the 'Params' tab in Postman. It contains a table with two columns: 'Key' and 'Value'. The table is currently empty, indicating that no parameters have been added yet.

Key	Value
-----	-------

Note that the “Params” section is empty.



The screenshot shows the 'Headers' tab in Postman. The URL bar contains a subscription ID: `https://api-eu.dhl.com/tracking/push/v1/subscription/50bed0c5-2d21-40a2-8169-97df1134fa87`. The headers list includes:

- Host: <calculated when request is sent>
- User-Agent: PostmanRuntime/7.36.1
- Accept: */*
- Accept-Encoding: gzip, deflate, br
- Connection: keep-alive
- DHL-API-Hook-Secret: lvXZemrmD7q88y7l8mhSwk
- DHL-API-Key: {{API_KEY}}

Annotations with red arrows point to the following fields:

- The subscription ID in the URL bar.
- The 'DHL-API-Hook-Secret' value.
- The 'DHL-API-Key' value.

The subscription ID obtained before must be filled in here, in the URL section

The “secret” value obtained before must be filled in here, in the “DHL-API-Hook-Secret” section

Remember to fill in the API key

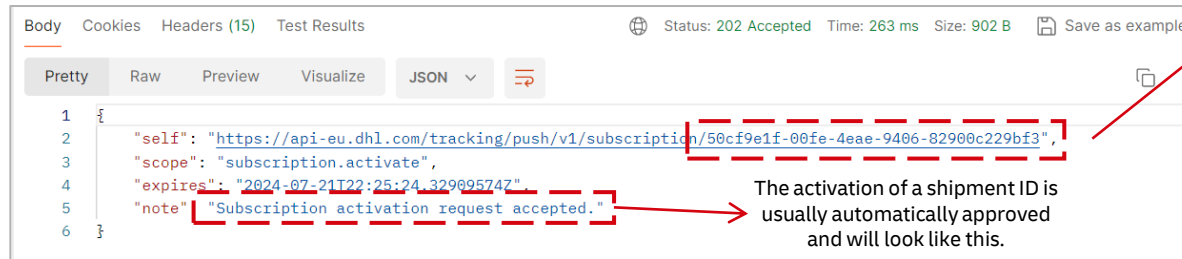
Nothing else should be filled in the “Body” section, after filling the subscription ID and the Secret, click on “Send”

CREATE SUBSCRIPTION BY SHIPMENT ID

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

5

This how the response from the API will look like after requesting to activate a subscription by Shipment ID.



```
1 {
2   "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/50cf9e1f-00fe-4eae-9406-8290c229bf3",
3   "scope": "subscription.activate",
4   "expires": "2024-07-21T22:25:24.32909574Z",
5   "note": "Subscription activation request accepted."
6 }
```

This is the subscription ID, it will also appear in the hook website

The activation of a shipment ID is usually automatically approved and will look like this.

Trying to repeat a call for the activation of a subscription ID and secret that has been sent before will result in an error

CREATE SUBSCRIPTION BY SHIPMENT ID

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

6

Request Details

[Permalink](#) [Raw content](#) [Copy as](#) ▼

POST

https://webhook.site/eb07b7e3-cafc-4cf5-a24c-5468be2428eb

Host

34.107.84.18 [Whois](#) [Shodan](#) [Netify](#) [Censys](#)

Date

01/12/2024 2:00:50 PM (11 days ago)

Size

219 bytes

Time

0.000 sec

ID

5031d91e-aabf-471e-84ee-f3133dfd6ccf

Query strings

(empty)

Files

Raw Content

☒ Format JSON ☒ Word-Wrap [Copy](#)

```
{
  "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/00555f53-5827-44c8-9a6d-5963cab40ae5",
  "scope": "subscription.ready",
  "expires": "2024-07-10T13:00:49.797817122Z",
  "note": "Subscription ready for notifications."
}
```

Headers

connection

close

host

webhook.site

content-type

application/json

correlation-id

af8b1b8d-79c9-44b9-a826-67b8d63794c3

content-length

219

Form values

(empty)

When a subscription has been activated, it will be shown like this

DHL
Group

PUSH MESSAGES

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

Receiving notifications

The webhook system will receive notifications when the status of a shipment has changed, for example, when a parcel or a group of them have completed the customs inspection.



The format of the message will be often similar to what the source and business unit sends to the regular DHL Shipment Tracking – Unified API (Pull), only that this time each event will be pushed independently to the webhook system

```
{
  "self": "https://api-eu.dhl.com/push/subscription/94d0131a-66b1-450d-82ac-4566b29c3dc1",
  "scope": "subscription.push",
  "expires": "2025-04-08T12:26:31.919Z",
  "note": "Event push message",
  "shipments": [
    {
      "id": "7777777770",
      "service": "express",
      "status": {
        "timestamp": "2023-03-02T07:53:47Z",
        "location": {
          "address": {
            "countryCode": "NL",
            "postalCode": "1043 AG",
            "addressLocality": "Oderweg 2, AMSTERDAM"
          }
        },
        "statusCode": "transit",
        "status": "in customs",
        "description": "The shipment is pending completion of customs inspection.",
        "piecelds": [
          "JD014600006281230701",
          "JD014600006281230702",
          "JD014600006281230703"
        ],
        "remark": "The shipment is pending completion of customs inspection.",
        "nextSteps": "The status will be updated following customs inspection."
      }
    }
  ]
}
```

PARAMETERS

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

GET

Get subscriptions

This endpoint gets all subscriptions (account or shipment) related to an API key

1

GET <https://api-eu.dhl.com/tracking/push/v1/subscriptions>

Params	Authorization	Headers (7)	Body	Pre-request Script	Tests	Settings
<input checked="" type="checkbox"/>	Postman-Token			① <calculated when request is sent>		
<input checked="" type="checkbox"/>	Host			① <calculated when request is sent>		
<input checked="" type="checkbox"/>	User-Agent			① PostmanRuntime/7.36.1		
<input checked="" type="checkbox"/>	Accept			① */*		
<input checked="" type="checkbox"/>	Accept-Encoding			① gzip, deflate, br		
<input checked="" type="checkbox"/>	Connection			① keep-alive		
<input checked="" type="checkbox"/>	DHL-API-Key			<div style="border: 2px dashed red; padding: 2px;">{{API_KEY}}</div>		

Only the API key must be filled in at the Headers section

PARAMETERS

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

GET

Get subscriptions

This endpoint gets all subscriptions (account or shipment) related to an API key

2

```
1 [
2   {
3     "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/d25c5b0a-0507",
4     "scope": "subscription.ready",
5     "expires": "2024-07-10T12:41:50.702Z",
6     "note": "Subscription information.",
7     "format": "Default",
8     "service": "ecommerce-europe",
9     "hook": {
10      "uri": "https://webhook.site/eb07b7e3-cafc-4cf5-a24c-5468be2428eb"
11    },
12     "events": [
13       "pre-transit",
14       "transit",
15       "failure",
16       "delivered",
17       "unknown"
18     ],
19     "shipmentIDs": [
20       "JJ0149990200058441261"
21     ]
22   }
23 ]
```

```
64 ],
65 {
66   "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/50bed0c5-2d21-40a2-8169-97df1134fa87",
67   "scope": "subscription.activate",
68   "expires": "2025-01-21T22:05:51.523Z",
69   "note": "Subscription information.",
70   "format": "Default",
71   "service": "express",
72   "hook": {
73     "uri": "https://webhook.site/eb07b7e3-cafc-4cf5-a24c-5468be2428eb"
74   },
75   "events": [
76     "transit",
77     "delivered",
78     "pre-transit",
79     "failure",
80     "unknown"
81   ],
82   "accountID": "REDACTED"
83 },
84 ]
```

The response will display this format describing every single subscription request and their status

PARAMETERS

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

GET

Get subscription details

1

This endpoint gets all subscription details related to one subscription ID, be it an account or a shipment

GET https://api-eu.dhl.com/tracking/push/v1/subscription/fa7a1ad9-7468-4085-8ab1-2c0660f6d440

Params Authorization Headers (7) Body Pre-request Script Tests Settings

	Key	Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	Postman-Token	<calculated when request is sent>			
<input checked="" type="checkbox"/>	Host	<calculated when request is sent>			
<input checked="" type="checkbox"/>	User-Agent	PostmanRuntime/7.36.1			
<input checked="" type="checkbox"/>	Accept	*/*			
<input checked="" type="checkbox"/>	Accept-Encoding	gzip, deflate, br			
<input checked="" type="checkbox"/>	Connection	keep-alive			
<input checked="" type="checkbox"/>	DHL-API-Key	{{API_KEY}}	https://developer.dhl.com > User Da		
	Key	Value	Description		

The subscription ID must be filled in at the URL section

Don't forget to fill in the API key

PARAMETERS

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

GET

Get subscription details

2

The screenshot shows a REST client interface with the following details:

- Method:** GET
- URL:** `https://api-eu.dhl.com/tracking/push/v1/subscription/fa7a1ad9-7468-4085-8ab1-2c0660f6d440`
- Params:** DHL-API-Key (checked), Value: `{{API_KEY}}`
- Headers:** 7 headers (15 total)
- Status:** 200 OK, Time: 199 ms, Size: 1.05 KB
- Response (JSON):**

```
1 {
2   "type": "Shipment",
3   "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/fa7a1ad9-7468-4085-8ab1-2c0660f6d440",
4   "scope": "subscription.ready",
5   "expires": "2024-07-10T13:00:04.443Z",
6   "note": "Subscription information.",
7   "format": "Default",
8   "service": "ecommerce-europe",
9   "hook": {
10    "uri": "https://webhook.site/eb07b7e3-cafc-4cf5-a24c-5468be2428eb"
11  },
12  "events": [
13    "pre-transit",
14    "transit",
15    "failure",
16    "delivered",
17    "unknown"
18  ]
19 }
```

Similar to what has been shown before for the endpoint to get all subscriptions, this is how the response look for a single subscription

The API will also send an event to the webhook system, but the information provided there has little relevance

PARAMETERS

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

DEL

Delete subscription

This endpoint deletes a subscription, be it account ID or shipment ID

1

DELETE ▼ <https://api-eu.dhl.com/tracking/push/v1/subscription/5301511c-6689-42fd-ac45-3604f04200a9> Send ▼

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Key	Value	Description
<input checked="" type="checkbox"/> Postman-Token	<calculated when request is sent>	
<input checked="" type="checkbox"/> Host	<calculated when request is sent>	
<input checked="" type="checkbox"/> User-Agent	PostmanRuntime/7.36.1	
<input checked="" type="checkbox"/> Accept	*/*	
<input checked="" type="checkbox"/> Accept-Encoding	gzip, deflate, br	
<input checked="" type="checkbox"/> Connection	keep-alive	
<input checked="" type="checkbox"/> DHL-API-Key	((API_KEY))	https://developer.dhl.com > User Dashboard t...
<input checked="" type="checkbox"/> DHL-API-Hook-Secret	yd3tk85FYQOgYy7p1RMw	

The subscription ID must be filled in at the URL section

Remember to fill in your API key

The “secret” value obtained before must be filled in here, in the “DHL-API-Hook-Secret” section

Nothing else must be filled or changed. The “Body” section is empty

2

Body Cookies Headers (14) Test Results

Status: 204 No Content Time: 239 ms Size: 658 B

Pretty Raw Preview Visualize JSON ▼ ≡

1

If everything goes well, the response of the API is an empty line and a 204 code

PARAMETERS

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

DEL

Delete subscription

3

Request Details

[Permalink](#) [Raw content](#) [Copy as](#) ▼

POST

https://webhook.site/83a5b616-6d96-4597-be9a-3d05c100da9c

Host

34.107.84.18 [Whois](#) [Shodan](#) [Netify](#) [Censys](#)

Date

01/26/2024 1:20:57 PM (6 minutes ago)

Size

197 bytes

Time

0.001 sec

ID

cd11a865-64ad-43c8-ba4f-8f29efec4106

Query strings

(empty)

Files

Raw Content

☒ Format

```
{
  "self": "https://api-eu.dhl.com/tracking/push/v1/subscription/5301511c-6689-42fd-ac45-3604f04200a9",
  "scope": "subscription.remove",
  "expires": "2024-07-24T12:18:54.95Z",
  "note": "Subscription removed."
}
```

Headers

connection

close

host

webhook.site

content-type

application/json

correlation-id

efcdb2b6-bbe4-4acc-9142-03db

content-length

197

Form values

(empty)

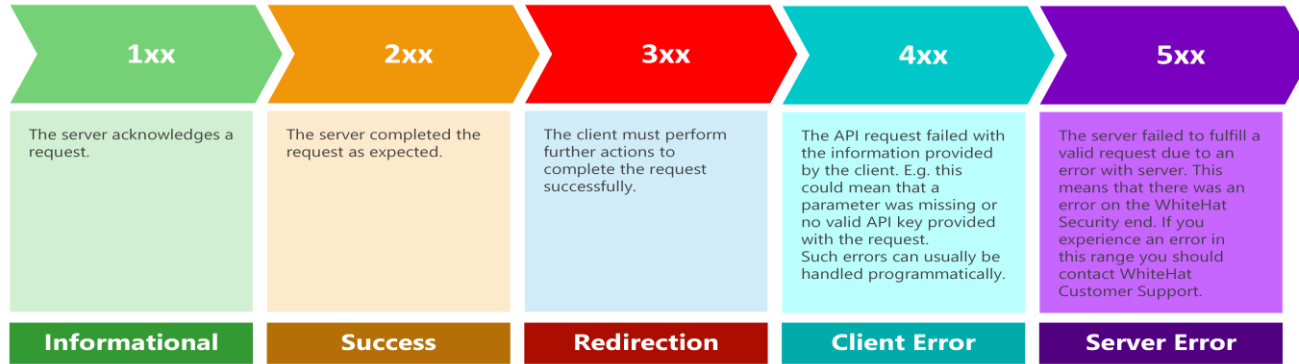


Different to the API response, the webhook system will display a notification with more details in it.

This notification contains information like the subscription ID, confirmation of the subscription removal, etc.

RESPONSE CODES

DHL SHIPMENT TRACKING – UNIFIED PUSH API 101



Source: <https://apidocs.whitehatsec.com/whs/docs/error-handling>

- **200 – OK:** The response was successfully completed.
- **401 – Unauthorized error:** The user doesn't have the right credentials to do the call (API key is wrong, Endpoint is wrong).
- **404 – Not found:** The system didn't find the requested call. Something can be wrong with the URL, or the shipment ID is not supported/doesn't exist.
- **429 – Too many requests:** The user attempted to do more calls than possible, either with spike arrest or daily quota limit.
- **500 – Internal server error:** Something is wrong with the API systems.
- **504 – Gateway Timeout error:** The API spent too much time looking for a request and didn't find anything before timing out.