# SHIPMENT TRACKING – UNIFIED PUSH API 101 GUIDE



# DEFINITION

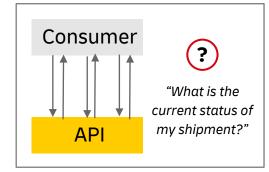
### **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

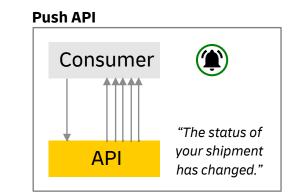
A "Push" API proactively pushes updates to a user, so there is no need to make a call every time they want to check a status.

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

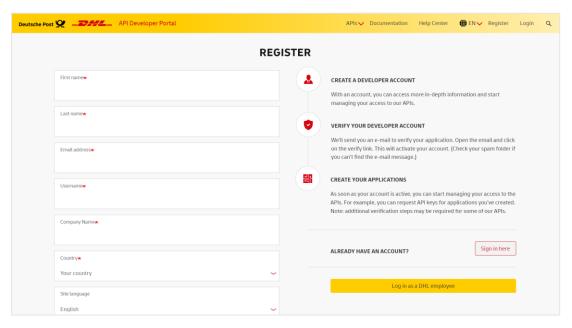






## ACCESS

### **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**



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



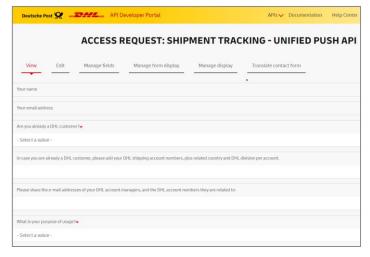
## ACCESS

### **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

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

			Click on th	e "Get Acce	ess" button:		
Deuts	che Post 👷 🚽	DHL_	API Developer Portal		APIs V Documentation	Help Center	● EN~ Q ▲ [→
Shipme	ent Tracking - Ur	nified - Push				Тгу	Now! Get Access
Vie	v Edit	Outline	Delete Revisions	Clone Translate			
E ⇒	<ul> <li>Get Started</li> <li>Overview</li> <li>User Guide</li> <li>Legal Terms</li> <li>&lt;&gt;&gt; Reference Docs</li> <li>↓ Downloads</li> </ul>		v 1.2.1 Division: DHL Group Best for: • Providing access to the s • Integrating all types of D • Muttiple shipments (e.g	shipment status at any time beutsche Post DHL shipments J. eCommerce, Express, Freigh he Shipment Tracking Unified.	; t, Letter, Parcel, etc.)		Notifications     Show Use Cases
				notification, users of the DHL s ons on the status of their shipn tes in two ways			

### Fill out the form and send

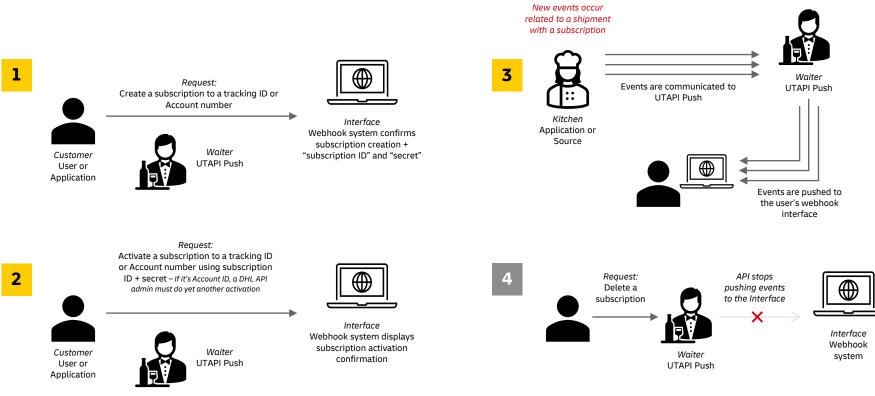


How many shipr	ments does your company send on average with DHL
Send yoursel	If a copy
Send message	



## **USE FLOW**

### **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**



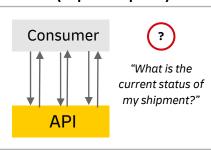


# THE "WHY" OF THE API

## **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 UTAPI, they must send a request every time they want to know the status.

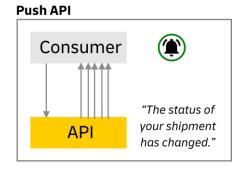
Some users want updated information up to the minute, and they bombard the API with requests, quickly consuming their quota. This process is costly and not the most efficient.



### Standard (request response) API

UTAPI Push 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.





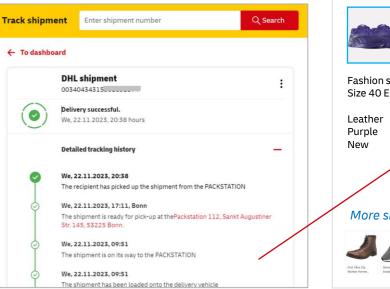
# THE "WHY" OF THE API

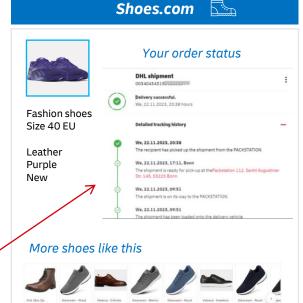
## **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

The added benefits are the same as the general <u>Shipment Tracking</u> <u>– Unified API</u>.

Merchants can use this data to provide up to date notifications to their customers about their shipments, instead of making the customer open a new tab and consult on DHL.

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 <u>the documentation's Scope</u>. Please check the most recent version on the website.

#### Service availability as of August of 2024:

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

DHL eCommerce APAC Subscription by shipment ID: No Subscription by account ID: No DHL Freight Subscription by shipment ID: No Subscription by account ID: No

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

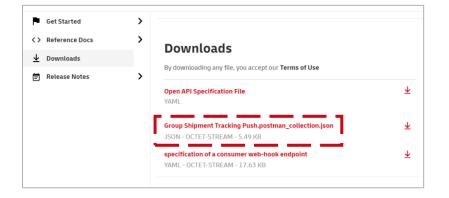


# **SETTING UP THE API**

## **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

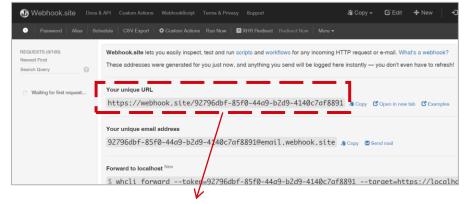
In order to directly an easily test the API, please install the provided Postman collection on the API documentation:

https://developer.dhl.com/api-reference/shipment-trackingunified-push#downloads-section



A user will also need to connect a Webhook system to our Push API, where the responses and notifications can be fed into.

For testing purposes, the following website can be used: <u>https://webhook.site/</u>



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

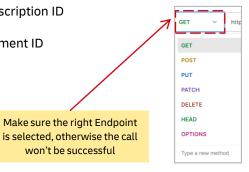


## ENDPOINTS

### 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 >
- ---- This endpoint activates a previously requested creation of account or shipment ID POST activate
- 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



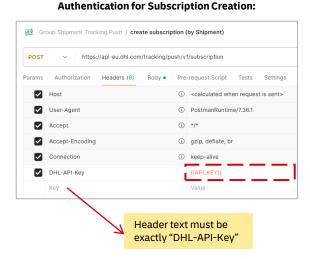
won't be successful



# **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.



_	Details Permalink Raw content Copy a	<ul> <li>Headers</li> </ul>			
POST	https://webhook.site/eb07b7e3-cafc-4cf5-a24c-5468be2428eb	connection	close		
lost	34.107.84.18 Whois Shodan Netify Censys	host	webhook.site		
ate	01/12/2024 3:04:06 PM (10 minutes ago)	content-type	application/json		
ize	258 bytes	dhl-api-hook-secret	z1sxajZ2Zeqk0EzH3k5qme		
ime	0.001 sec	correlation-id	4c4e3306-cae3-466a-90d8-2e5f18c60609		
ID 5bf37cb8-fcba-4bb5-a1eb-3b5b2a447b08		content-length	258		
uery stri	ings	Form values			
		(empty)			
iles					
Rew Con	itent		Format JSON Word-Wrap Copy	Authentication	
	Non		La Format 330N La Word-Wrap Copy	for Subscription	
	f": "https://api-eu.dhl.com/tracking/push/v1/subscri			Activation:	
"exp "sec	ppe": "subscription.validate", pires": "2024 <u>-01-17T14:04:05.810</u> 855158Z", rret": "z1sxajZZZeqk0EzH3k5qme",		Group Shipment Tracking Push / activate		
"exp "sec "not	pires": "2024-01-17T14:04:05.810855158Z".			bscription/aa16f3e7-5f32-4665-8583-051bbebcb	
"exp "sec "not	ires": " <u>2024-01-17T14:04:05.810</u> 855158Z", :ret": "z1sxajZ2Zeqk0EzH3k5qme",		POST v https://api-eu.dhl.com/tracking/push/v1/su	bscription/aa16/3e7-5/32-4665-8583-051bbebcb- est Script Tests Settings	
"exp "sec "not	ires": " <u>2024-01-17T14:04:05.810</u> 855158Z", :ret": "z1sxajZ2Zeqk0EzH3k5qme",		POST v https://api-eu.dhl.com/tracking/push/v1/su Params Authorization Headers (9) Body Pre-requ		
"exp "sec "not	ires": " <u>2024-01-17T14:04:05.810</u> 855158Z", :ret": "z1sxajZ2Zeqk0EzH3k5qme",		POST         https://api-eu.dhi.com/tracking/push/v1/su           Params         Authorization         Headers (9)         Body         Pre-require           Item to st         Image: Contract of the state of the s	est Script Tests Settings	
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"exp "sec "not	ires": " <u>2024-01-17T14:04:05.810</u> 855158Z", :ret": "z1sxajZ2Zeqk0EzH3k5qme",		POST     https://api-eu.dhi.com/tracking/push/v1/su       Params     Authorization       Host     ①       C     Params       User-Agent     ①       C     Accept	est Script Tests Settings alculated when request is sent> stmanRuntime/7.36.1	
"exp "sec "not	ires": " <u>2024-01-17T14:04:05.810</u> 855158Z", :ret": "z1sxajZ2Zeqk0EzH3k5qme",		POST     https://api-eu.dhl.com/tracking/push/v1/sul       Params     Authorization     Headers (9)     Body     Pre-require       Image: Host     Image:	alculated when request is sent> stmanRuntime/7.36.1	
"exp "sec	ires": " <u>2024-01-17T14:04:05.810</u> 855158Z", :ret": "z1sxajZ2Zeqk0EzH3k5qme",		POST     https://api-eu.dhl.com/tracking/push/V/fsul       Params     Authorization     Headers (9)     Body     Pre-require       Host     Image: Comparison of the second se	est Script Tests Settings alculated when request is sent> stmanRuntime/7.36.1 , ip, deflate, br	



# **AUTHENTICATION**

## DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

When creating a subscription request, you may also add additional lines to provider 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": "ApiKey",
        "token": "ADD HERE YOUR AUTHENTICATION CHARACTERS"
        }
    ;
    "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",
    "token": "ADD HERE YOUR HEADER TOKEN"
    }
  },
  "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:

```
POST
               https://api-eu.dhl.com/tracking/push/v1/subscription
        Authorization
                    Headers (9)
                                   Body 
Pre-request Script
                                                              Tests Settings
none
        form-data
                    x-www-form-urlencoded  raw  binary  GraphQL
        "hook" : - {
          "uri": "https://webhook.site/efdb3763-b5e2-436b-97d6-1070bb7de389"
          "authentication": - 1
           "type": "ApiKeyAuthentication",
           "header": "api-key",
           "token": "12345678910%#"
10
        "format": "Default",
        "type": Account",
        "service": "ecommerce-europe",
        "events":
14
         "Transit", "Delivered", "Pre-Transit", "Failure", "Unknown"
15
16
        "accountID": - "12345678"
17
```



# **WEBHOOK SETUP PER ENDPOINT**

## **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

2

### la

POST call: Create a subscription **by account ID** 

→ You will get a "subscription ID" and a "secret" POST call: Activate a subscription with the subscription ID and the secret

→ You will get a preapproval message, still need a business approval 2a Send a request to the business to activate your Account ID subscription

> → You will need to provide your subscription ID

2b The business approves your request

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

3

→ 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 F

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

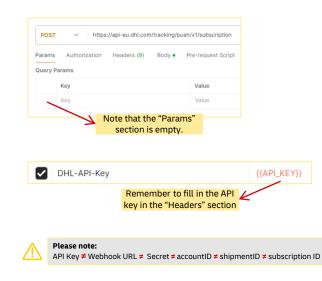




## **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

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.

**Create the subscription** 



#### The hook URL must be $\rightarrow$ replaced with the webhook system. Refer to slide 8 https://api-eu.dhl.com/tracking/push/v1/subscription POST Params Authorization Headers (9) Body • Pre-request Script Settinas The service value must be none form-data x-www-form-urlencoded raw binary GraphQL JSON V replaced. Possible options: sameday, dqf, 1 ecommerce-europe, parcel-uk 2 "hook": -{ 3 ·"uri' ttps://hook.vourdomain.com Δ 5 3, "format": "Default". 6 7 "type": Account' 8 "service": "express The accountID must be 9 "events": replaced. This value should 10 "Transit", "Delivered", "Pre-Transit", "Failure", "Unknown" be known by the customer. 11 1, 12 "accountID" 13 14



## **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

"self": "https://api-eu.dhl.com/tracking/push/v1/subscription/50bed0c5-2d21-40a2-8169-97df11

Pretty Raw Preview Visualize JSON	~ <del>-</del>			This how the response from the Al look like after creating a reques
1 {				create a subscription by Account
2 "self": "https://api-eu.dhl.com/tra	acking/push/v1/sub	scription/50bed0c5-2d21-40a2-8169	9-97df1134fa87",	
3 "scope": "subscription.create",				
4 "expires": "2024-01-28T20:19:03.363	3038311Z",			This is the subservintion ID it will
5 "note": "Subscription request creat	ted."			This is the subscription ID, it will
6 }				also appear in the hook website
Request Details Permalink Raw content Copy a	ns - Headers			
Request Details         Permalink         Raw content         Copy a           post         https://webhook.site/eb07b7e3-cefc-4cf5-a24c-5468ba2428eb         Copy a	Headers connection	close	_	
		close webhook.site	This h	out the response from the
Post         https://webhook.sita/eb07b7e3-cete-4ct5-a24c-5468ba2428eb           Host         34.107.84.18         Whois Shodan Netly Cennys           Date         01/23/2024 9:19:03 PM (23 minutes ago)	connection host content-type	webhook.site application/json		ow the response from the
Post         https://webhook.sito/eb07b7e3-cafo-4cf5-a24o-5468be2428eb           Host         34.107.84.18         Whois Shodan Netify Censys	connection host content-type dhl-api-hook-secret	webhook.site application/json IvXZemrmD7q88y7l8mhSwk		ow the response from the Il look like in the Webhook
Post         https://webhook.site/ob07b7e3-cate-4ct5-a24c-5488be2428eb           Host         34.107.84.18         Whois Shodan Netly Cennys           Date         01/23/2024 9:19:03 PM (23 minutes ago)           Size         258 bytes           Time         0.000 sec	connection host content-type dh1-api-hook-secret correlation-id	webhook.site application/json IvXZemrmD7q88y7l&mhSwk d2acbc90-b846-4fc1-ba89-06ca10cee4a2	API wil	ll look like in the Webhook
Post         https://webhook.sita/ob07b7e3-cate-4ct5-a24c-5468ba2428eb           Host         34.107.84.18         Whois Shodan Netly Cennys           Date         01/23/2024 9:19:03 PM (23 minutes ago)         Size           Size         258 bytes	connection host content-type dh1-api-hook-secret correlation-id	webhook.site application/json IvXZemrmD7q88y7l8mhSwk	API will sys	ll look like in the Webhook stem after creating an
Post         https://webhook.site/ob07b7e3-cate-4ct5-a24c-5488be2428eb           Host         34.107.84.18         Whois Shodan Netly Cennys           Date         01/23/2024 9:19:03 PM (23 minutes ago)           Size         258 bytes           Time         0.000 sec	connection host content-type dh1-api-hook-secret correlation-id	webhook.site application/json IvXZemrmD7q88y7l&mhSwk d2acbc90-b846-4fc1-ba89-06ca10cee4a2	API will sys	ll look like in the Webhook
Post         https://webhook.sita/eb07b7e3-cate-4ct5-a24c-5468ba2428eb           Host         34.107.84.18         Whois Shodan Netly Cenays           Date         01/23/2024 9:19:03 PM (23 minutes ago)           Size         258 bytes           Time         0.000 sec           ID         99a382v2-d5d5-40ce-a69b-bb9bb7924f7d	connection host content-type dhi-api-hook-secret correlation-id content-length	webhook.site application/json IvXZemrmD7q88y7l&mhSwk d2acbc90-b846-4fc1-ba89-06ca10cee4a2	API will sys	ll look like in the Webhook stem after creating an

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



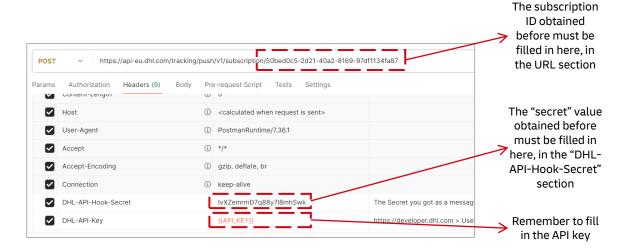
"scope": "subscription.validate", "expires": "2024-01-28T20-19:03 363038311Z", "secret": "IvXZemrmD7q88y718mhSwk",

"note": "Subscription validation token provided."

### **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

### 4 Activate a subscription

uery Para	ms			
Ke	у		Value	
Ke	зy		Value	



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



### **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

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



(refer to slide 4)

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



5

### DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

6

To activate subscription as admin **(once you have completed the requirements from step 0)**. You will simply need to add the subscription ID in the URL and send the call on Postman

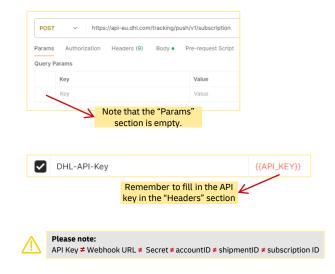
eaders		request Script Tests Settings		Cookies
	Кеу	Value	Description	••• Bulk Edit Presets ~
~	DHL-API-Key	{{key}}	https://developer.dhl.c	com > User Dashboard t
	Key	Value	Description	
3 4	"scope": "subscription.activate", "expires": "2025-06-19T08:20:11.8812" "note": "Subscription authorization r			
5	3			

nequest	t Details Permalink Raw	content Copy as 👻	Headers	
POST	https://webhook.site/384cd95f-30dc-4bcb-b065-64d46e	ea74e57	connection	close
Host	34.107.101.99 Whois Shodan Netify Censys Vi	rusTotal	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-174
Time	0.000 sec		content-length	213
ID	247936d8-b903-4dd9-93d7-4c0be3c48160			
Query st	trings		Form values	
(empty)			(empty)	
Raw Co	ontent			Served Forma
"sc "exp	lf": "https://api-eu.dhl.com/tracking/push opp": "subscription.ready", pires": "2025-06-19108:20:11.8812", ite": "Subscription ready for notifications		/355f98dd-6124-4	4d14-957e-de2753f21809",
"sci "exp "not	cope": "subscription.ready", pires": "2025-06-19T08:20:11.881Z",		/355f98dd-6124-4	4d14-957e-de2753f21809",





## **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**



### Create the subscription





### **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:





## **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**



Request [	Details	Permalink Raw content Copy as -	Headers		
POST	https://webhook.site/eb07b7e3-cafc-	4cf5-a24c-5468be2428eb	connection	close	
Host	34.107.84.18 Whois Shodan Netify	y Censys	host	webhook.site	This how the response from the API
Date	01/12/2024 3:04:06 PM (11 days age	0)	content-type	application/json	will look like in the Webhook system
Size	258 bytes		dhl-api-hook-secret	z1sxajZ2Zeqk0EzH3k5qme	
Time	0.001 sec		correlation-id	4c4e3306-cae3-466a-90d8-2e5f18c60609	after creating a Shipment ID
ID	5bf37cb8-fcba-4bb5-a1eb-3b5b2a44	7b08	content-length	258	subscription request
Query str	ings		Form values		Subscription request
(empty)			(empty)		
Files					
Raw Con	ntent			S Format JSON Word-Wrap	······································
"sco "exp "sec	f": "https://api-eu.dhl.com/ pe": "subscription.validate" ires": "2024_01_12714:04-05 ret": "zlsxajZ2Zeqk0EzH3KSqm e": " <del>Subsc</del> ri <del>ption</del> v <del>alida</del> ti <del>on</del>	810855158Z", e",	r <mark>/</mark> aa16f3e7-5f32-4	565-8583-051bbebcb44f",	provided when activating the subscription This is the "secret" for this subscription request, it wil need to be provided when activating the subscription

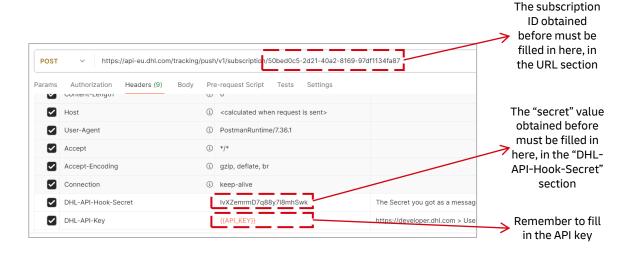


3

### **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

### **4** Activate the subscription

Params	Authorization	Headers (9)	Body	Pre-request Script	
Query Pa	irams				
	Кеу			Value	
$\mathbf{x}$	Key			Value	
	<b>`</b>				_

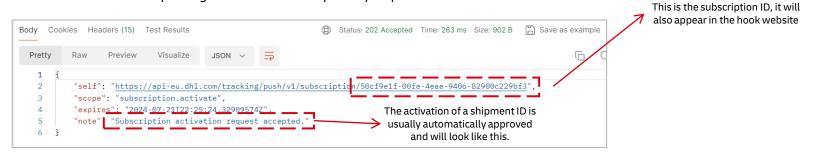


Nothing else should be filled in the "Body" section, after filling the subscription ID and the Secret, click on "Send"



### **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

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



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



### **DHL SHIPMENT TRACKING – UNIFIED PUSH API 101**

0.007	https://wahhaak.aita/ah07h7a0.aafa.4af5.a04a.5400ha0400ah	connection	close		
POST	https://webhook.site/eb07b7e3-cafc-4cf5-a24c-5468be2428eb				
Host	34.107.84.18 Whois Shodan Netify Censys	host	webhook.site		
Date	01/12/2024 2:00:50 PM (11 days ago)	content-type application/json			
Size	219 bytes	correlation-id	af8b1b8d-79c9-44b9-a826-67b8d63794c3		
Time	0.000 sec	content-length	219		
ID	5031d91e-aabf-471e-84ee-f3133dfd6ccf				
Query st	trings	Form values			
(empty)		(empty)			
Files					
Raw Co	ntent		Sorrat JSON Sword-1		
	lf": "https://api-eu.dhl.com/tracking/push/v1/subscriptio ope": "subscription.ready", pires": "2024-07-10T13:00:49.797817122Z", te": "Subscription ready for notifications."	on/00555f53-5827-	44c8-9a6d-5963cab40ae5",		



## **CREATE SUBSCRIPTION BY SHIPMENT ID – POSTAL CODE CHALLENGE**

### DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

There is the possibility to add a "Postal Code Challenge" in the body for shipments with service set as "**parcel-de**". If added correctly, and the postal code matches the real one, additional details will be displayed.

```
Here is the format of the Body with Postal Code Challenge:
"hook": {
 "uri": "ADD HERE YOUR WEBHOOK SYSTEM URL",
 "authentication": {
  "type": "ApiKeyAuthentication",
  "header": "ADD HERE YOUR HEADER VALUE".
  "token": "ADD HERE YOUR TOKEN VALUE"
"format": "Default",
"type": "Shipment".
"service": "parcel-de".
"events": [
 "Transit", "Delivered", "Pre-Transit", "Failure", "Unknown"
"shipmentIDsWithChallengeDetails": [
  "shipmentID": "123456789".
  "postalCode": "12345"
  "shipmentID": "34567890",
  "postalCode": "12346"
```



## **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 UTAPI, 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."



GET

## DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

Get subscriptions

1

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

GET	~ https:	://api-eu.dhl.com	n/tracking/	push	/v1/subscriptions		_	
Params	Authorization	Headers (7)	Body	Pre	-request Script Tests S	ettings		
	Postman-Token			i	<calculated is<="" request="" td="" when=""><td>sent&gt;</td><td></td><td></td></calculated>	sent>		
	Host			í	<calculated is<="" request="" td="" when=""><td>sent&gt;</td><td></td><td></td></calculated>	sent>		
	User-Agent			i	PostmanRuntime/7.36.1			
	Accept			i	*/*			
	Accept-Encoding			i	gzip, deflate, br			Only the API key mus
	Connection			i	keep-alive		$\rightarrow$	be filled in at the Headers section
	DHL-API-Key				{{API_KEY}}			



### DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

Get subscriptions

2

GET

GET <ul> <li>https://api-eu.dhi.com/tracking/push/v1/subscriptions             </li> </ul> <ul> <li>api-eu.dhi.com/tracking/push/v1/subscriptions             </li> </ul> <ul> <li>api-eu.dhi.com/tracking/push/v1/subscriptions         </li> </ul>	GET <ul> <li>https://api-eu.dhl.com/tracking/push/v1/subscriptions</li> </ul> <ul> <li>Params</li> <li>Authorization</li> <li>Headers (7)</li> <li>Body</li> <li>Per-request Script</li> <li>Tests</li> <li>Settings</li> </ul>
Params Authorization Headers (7) Body Pre-request Script Tests Settings Body Cookies Headers (15) Test Results (7) Status: 200 OK Time: 3	Body Cookies Headers (15) Test Results
Body Cookies Headers (15) Test Results       Status: 200 OK Time: 3         Pretty Raw Preview Visualize JSON v       Image: Constraint of the status o	Body Cookles Headers (15) Test Results       (2) Status: 200 OK Time: 349 ms Size: 3.95 KB       (3) Satus: 200 OK Time: 349 ms Size: 3.95 KB       (3) Satus: 200 OK Time: 349 ms Size: 3.95 KB       (4) Satus: 200 OK Time: 349 ms Size: 3.95 KB       (5) Satus: 200 OK Time: 349 ms Size: 3.9
20 "JJD149990200058441261" 21 ]	

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



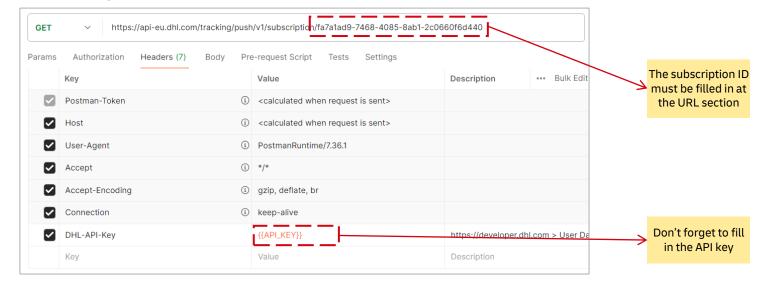
**GET** 

1

### DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

Get subscription details

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





## DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

## GET

### Get subscription details

2

	https://api-eu.dhl.com/tracking/push	/v1/subscription	/fa7a1ad9-7468-4085-8ab1-	2c0660f6d440	
Params		e-request Script	Tests Settings		
$\checkmark$	DHL-API-Key	{{API_KEY}}		https://developer.dhl.co	om > User [
	Кеу	Value		Description	
ody Co	ookies Headers (15) Test Results		🕀 Status: 200	OK Time: 199 ms Size: 1.05 K	B 🖺 Sav
Pretty	Raw Preview Visualize JSON	~ =			
	£				
2	"type": "Shipment",				
3	"self": "https://api-eu.dhl.com/tra	cking/push/v1	/subscription/fa7a1ad9	-7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4	"scope": "subscription.ready",		/subscription/fa7a1ad9	-7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4	<pre>"scope": "subscription.ready", "expires": "2024-07-10T13:00:04.443</pre>	Ζ",	/subscription/fa7a1ad9	-7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4 5 6	"scope": "subscription.ready", "expires": "2024-07-10T13:00:04.443 "note": "Subscription information."	Ζ",	/subscription/fa7a1ad9	-7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4 5 6 7	"scope": "subscription.ready", "expires": "2024-07-10T13:00:04.443 "note": "Subscription information." "format": "Default",	Ζ",	/subscription/fa7a1ad9	-7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4 5 6 7 8	"scope": "subscription.ready", "expires": "2024-07-10T13:00:04.443 "note": "Subscription information." "format": "Default", "service": "ecommerce-europe",	Ζ",	/subscription/fa7a1ad9	7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4 5 6 7 8 9	"scope": "subscription.ready", "expires": "2024-07-10T13:00:04.443 "note": "Subscription information." "format": "Default", "service": "ecommerce-europe", "hook": {	Z",		-7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4 5 7 8 9 10	<pre>"scope": "subscription.ready", "expires": "2024-07-10T13:00:04.443. "note": "Subscription information." "format": "Default", "service": "ecommerce-europe", "hook": { "uri": "https://webhook.site/ebb"</pre>	Z",		-7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4 5 7 8 9 10 11	<pre>"scope": "subscription.ready", "expires": "2024-07-10T13:00:04.443 "note": "Subscription information." "format": "Default", "service": "ecommerce-europe", "hook": { "uri": "<u>https://webhook.site/eb</u> },</pre>	Z",		-7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4 5 7 8 9 10 11 12	<pre>"scope": "subscription.ready", "expires": "2024-07-10T13:00:04.443 "note": "Subscription information." "format": "Default", "service": "ecommerce-europe", "hook": { "uri": "https://webhook.site/eb }, "events": [</pre>	Z",		-7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4 5 7 8 9 10 11 12 13	<pre>"scope": "subscription.ready", "expires": "2024-07-10T13:00:04.443 "note": "Subscription information." "format": "Default", "service": "ecommerce-europe", "hook": { "uri": "https://webhook.site/eb }, "events": [ "pre-transit",</pre>	Z",		-7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4 5 6 7 8 9 10 11 12 13 14	<pre>"scope": "subscription.ready", "expires": "2024-07-10T13:00:04.443 "note": "Subscription information." "format": "Default", "service": "ecommerce-europe", "hook": { "uri": "https://webhook.site/eb }, "events": [ "pre-transit", "transit",</pre>	Z",		-7468-4085-8ab1-2c0660f6	<u>d440</u> ",
4 5 7 8 9 10 11 12 13	<pre>"scope": "subscription.ready", "expires": "2024-07-10T13:00:04.443 "note": "Subscription information." "format": "Default", "service": "ecommerce-europe", "hook": { "uri": "https://webhook.site/eb }, "events": [ "pre-transit",</pre>	Z",		-7468-4085-8ab1-2c0660f6	<u>d440</u> ",

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

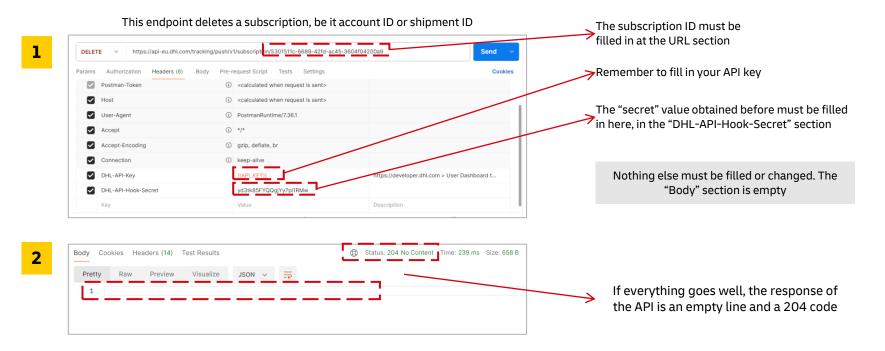
The API will also send an event to the webhook system, but the information provided there has little relevance



DEL

### DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

### Delete subscription





## DHL SHIPMENT TRACKING – UNIFIED PUSH API 101

### DEL

### **Delete subscription**

3

Request D	etails Permalink Raw content Copy as -	Headers	
POST	https://webhook.site/83a5b616-6d96-4597-be9a-3d05c100da9c	connection	close
Host	34.107.84.18 Whois Shodan Netify Censys	host	webhook.site
Date	01/26/2024 1:20:57 PM (6 minutes ago)	content-type	application/json
Size	197 bytes	correlation-id	efcdb2b6-bbe4-4acc-9142-03db
Time	0.001 sec	content-length	197
ID	cd11a865-64ad-43c8-ba4f-8f29efec4106		
Query strii	ngs	Form values	
(empty)		(empty)	
Files			
Raw Cont	tent		Formation For
"scop "expi	": "https://api-eu.dhl.com/tracking/push/v1/subscriptic pe": "subscription.remove", .res": "2024-07-24T12:18:54.95Z", ": "Subscription removed."	n/5301511c-6689-	42fd-ac45-3604f04200a9",

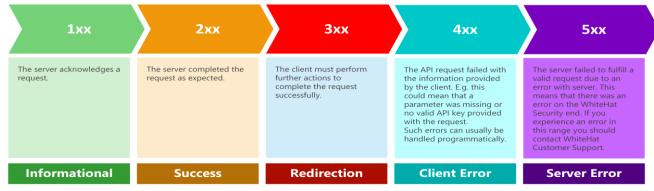
Different to the API response, the webhook system will display a notification with more details in it.

This notification contains information like the subscriptionID, 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.

