Actility
Connecting with intelligence

How to connect an Abeeway tracker to Helium

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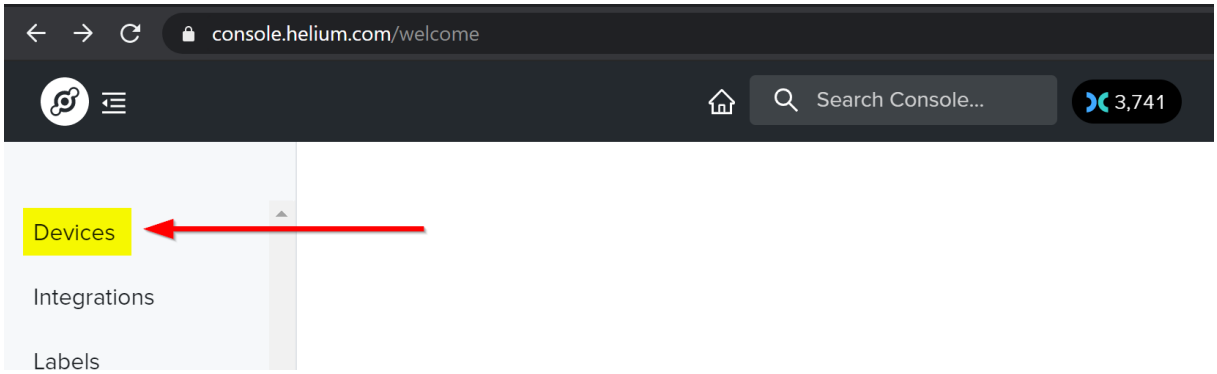
1 REQUIREMENTS

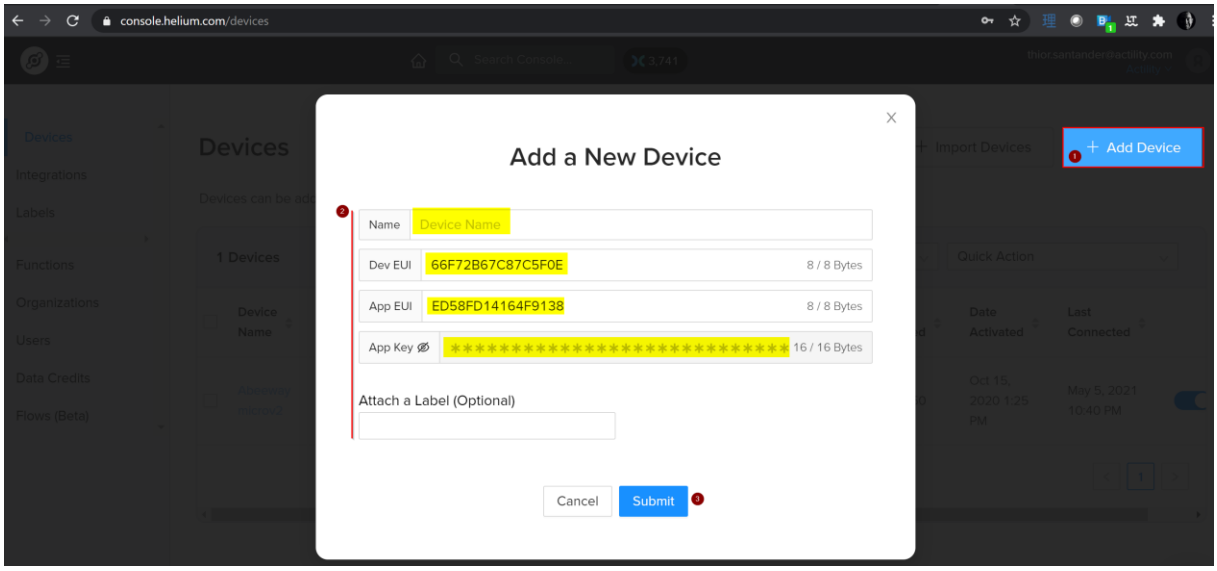
- Abeeway tracker
  - You must know your devEUI/appEUI/appKey
- Helium account
  - Visit https://www.helium.com to create an account
  - Log in to your account using https://console.helium.com/

2 PROVISION YOUR TRACKER

2.1 Go to the device page

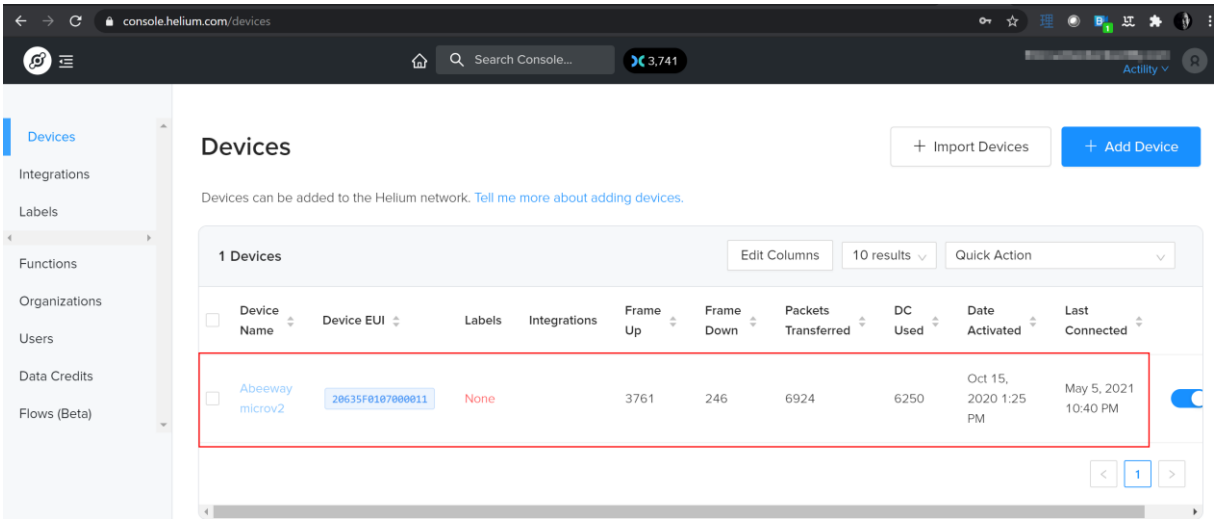


2.2 Click on Add Device, fill the form and Submit

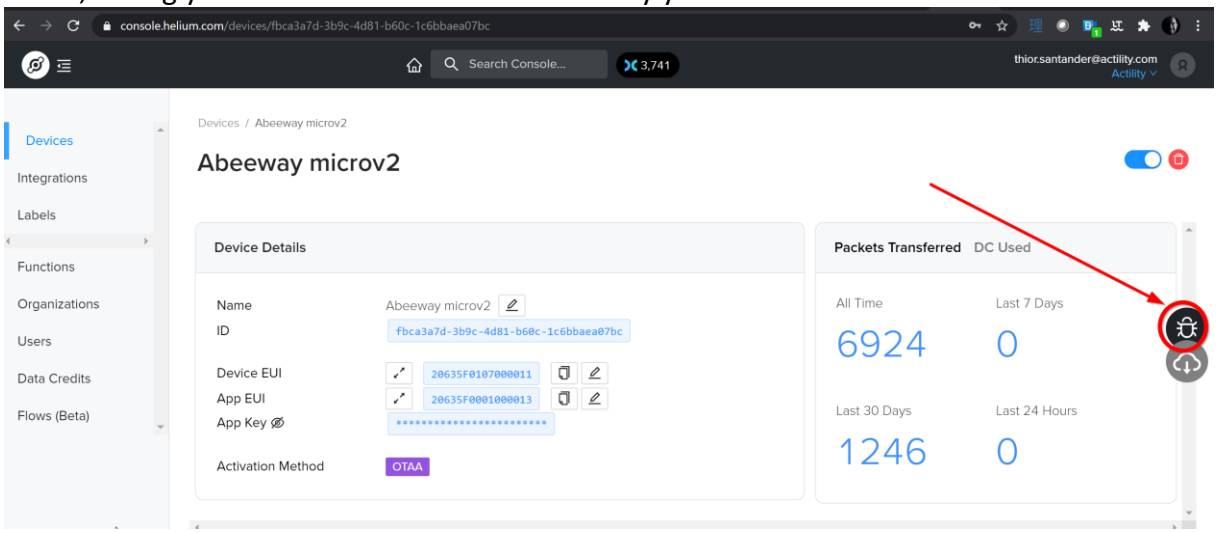


3 CHECK YOUR DEVICE INFORMATION

You can check your device's main statistic from the device page



Clicking on your device's line will provide you more details and give you access to the debug mode, letting you see the raw data transmitted by your device



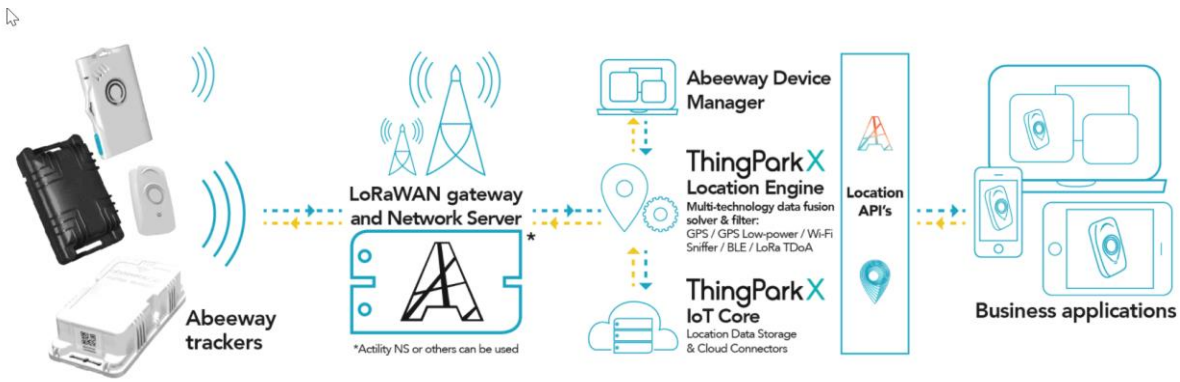
4 HELIUM INTEGRATION WITH ABEEWAY DEVICE MANAGER

Abeeway trackers are LoRaWAN® devices ensuring asset localization by leveraging multiple geolocation technologies: **GPS**, **Low Power-GPS (LP-GPS)**, **Wi-Fi** sniffing, **LoRaWAN®**, and **BLE** radios. Multiple form factors are available to match the wide variety of vertical applications.

TP X Location Engine is a multi-technology solver that computes and exposes the best location information possible by combining the various information transmitted by the tracker. The location engine also exposes a set of APIs to interact with the trackers – for example to request a position, change configuration, etc.

Abeeway Device Manager (ADM) is TP X location Engine's companion application to efficiently manage your fleet of trackers. With ADM you can:

- Manage your trackers configuration
- Visualize your trackers on a map
- Assess your trackers' behavior and performance, visualizing their key metrics at a glance.

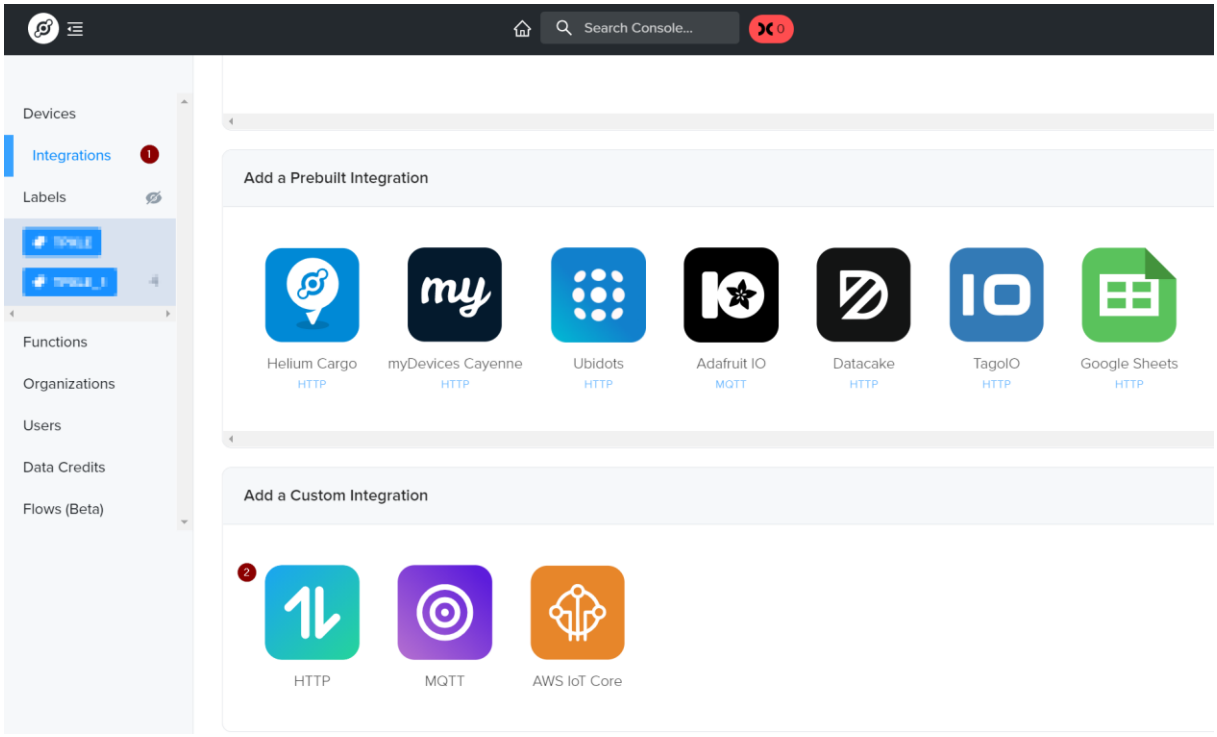


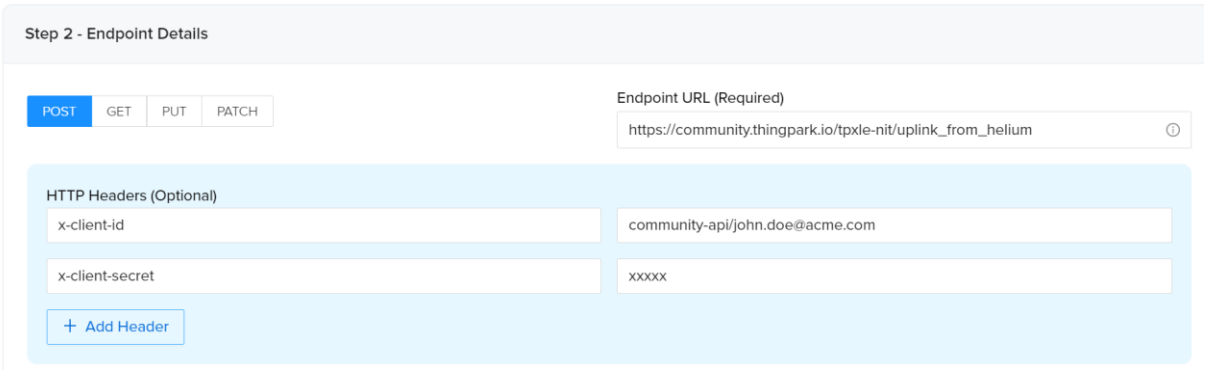
HELIUM - ASSET TRACKING EVALUATION KIT gives you free access to Abeeway Device Manager.

4.1 Create integration

To be able to use Abeeway Device Manager, an access to ThingPark Community portal must be created: https://community.thingpark.org

Then an HTTP custom integration must be created on Helium console - https://console.helium.com/integrations





The Endpoint URL to be configured must be: https://community.thingpark.io/tpxle-nit/uplink_from_helium

The following 2 headers must be configured:

- x-client-id: community-api/<YOUR_COMMUNITY_CLIENT_ID>

where <YOUR_COMMUNITY_CLIENT_ID> is the email used to create your account on Actility Community Portal - https://community.thingpark.org

- x-client-secret: <YOUR_COMMUNITY_CLIENT_SECRET>

where <YOUR_COMMUNITY_CLIENT_SECRET> is the password set up during our account creation on Actility Community Portal – https://community.thingpark.org

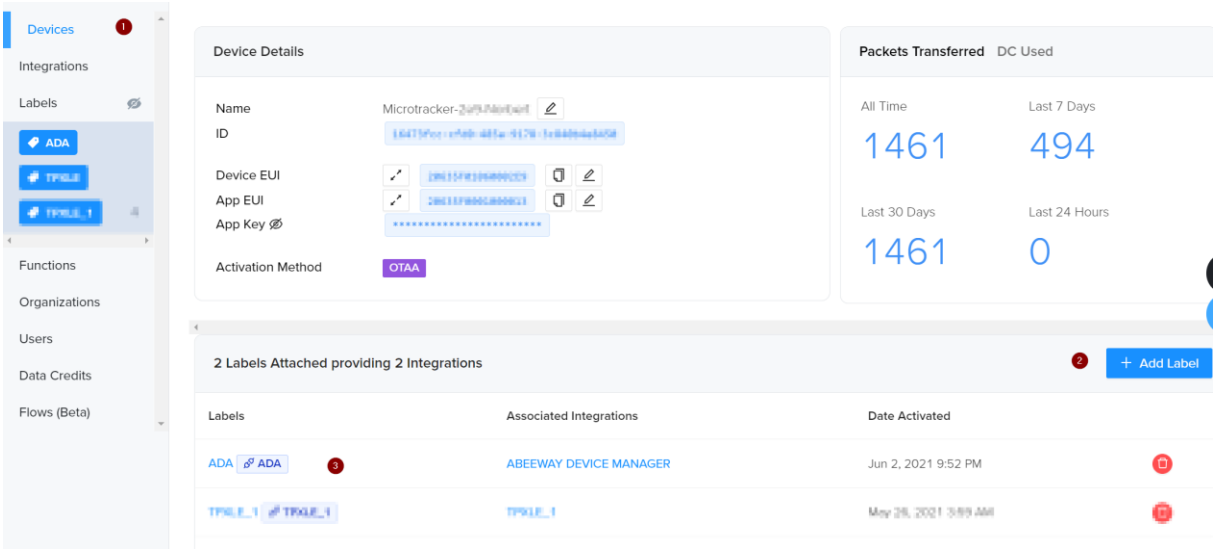
In Integration creation – step 3, name your integration.

In Integration creation – step 4, attach a label to this integration.

More information on how to create Helium integrations can be found here - https://docs.helium.com/use-the-network/console/integrations/http/

4.2 Add Integration label to your device

Go in Devices, click on Add Label corresponding to your newly created integration



5 ABEEWAY DEVICE MANAGER ACCESS

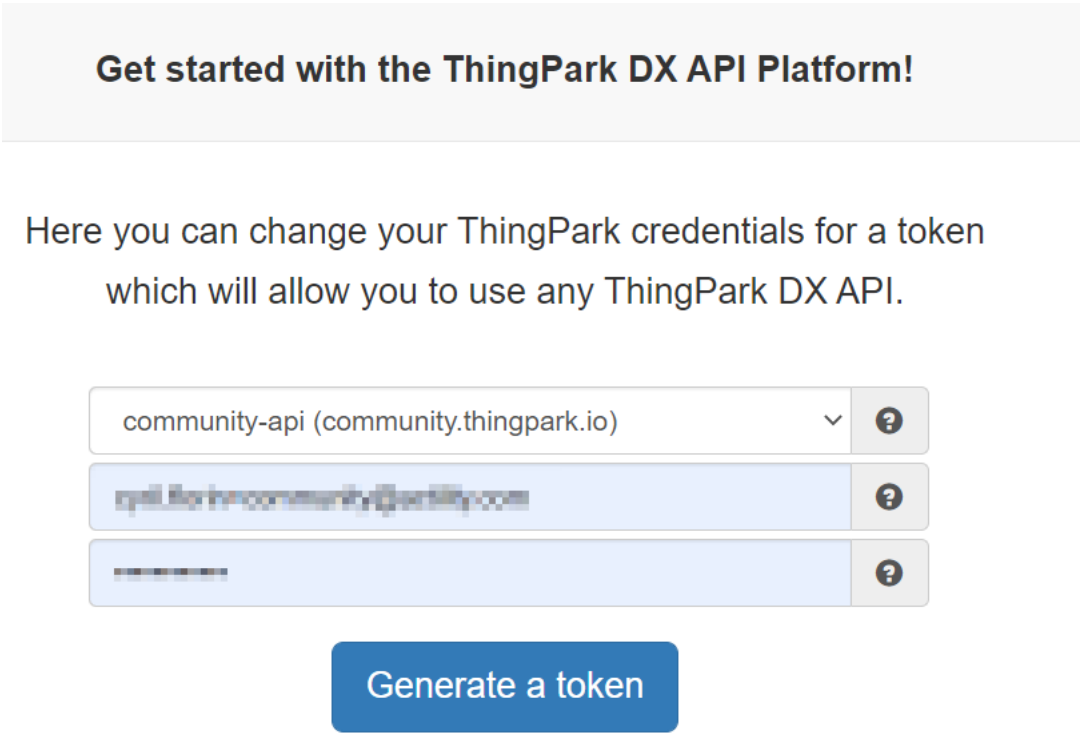
To start tracking your assets using the Abeeway Device Manager application. Follow the steps described in the link below, you will be able to view your trackers on a map and monitor their performance, such as battery level.

⇨ https://docs.thingpark.com/thingpark-location/C-Procedure-Topics/TrackAssetsAEK_T/

6 UPDATE ABEEWAY CONFIGURATION FROM ADA

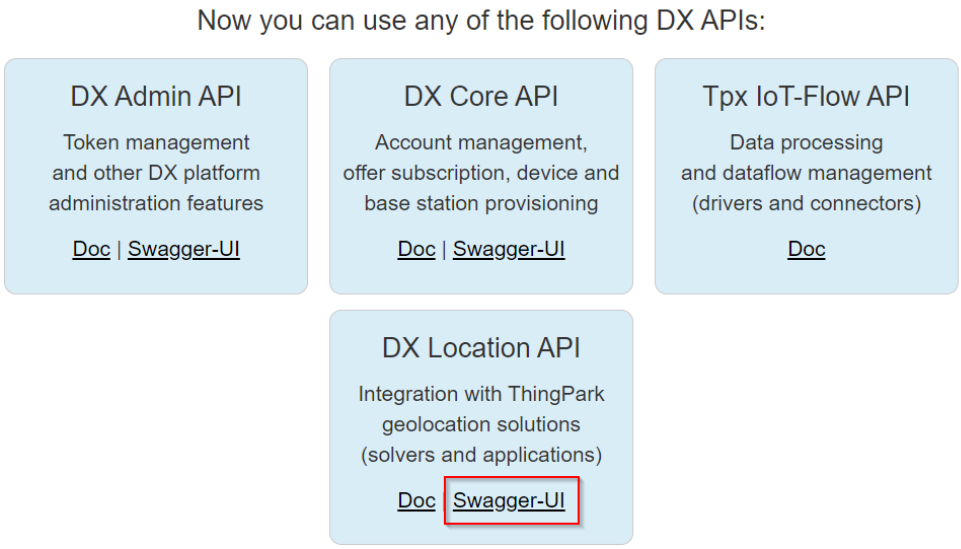
It is possible to update Abeeway tracker configuration from Abeeway Device Manager. To do so, a binder to Helium must be configured.

First step is to connect to ThingPark DX API Platform: https://dx-api.thingpark.io/getstarted/#/

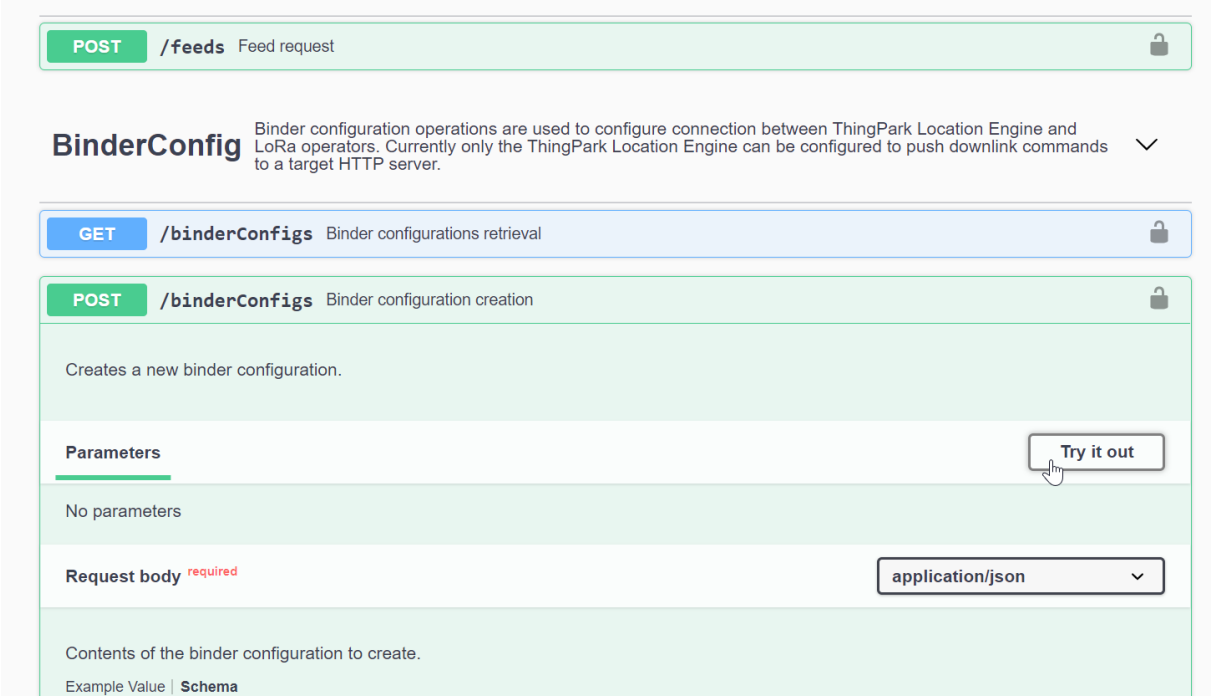


Same Client_Id and Client_Password must be used to connect. Then clieck on Generate a token.

Click on Swagger-UI in DX Location API.



Expand POST /binderConfigs and click on Try it out



In Contents of the binder configuration to create, paste the following json document:

```
{
  "callbackURL": "https://community.thingpark.io/tpxle-nit/downlink_to_helium",
  "deviceEUIList": "*"
}
```

And click on Execute.

Now when clicking on Update in Abeeway Device Manger tab – Device configuration, downlink command will be sent the device to update its configuration.