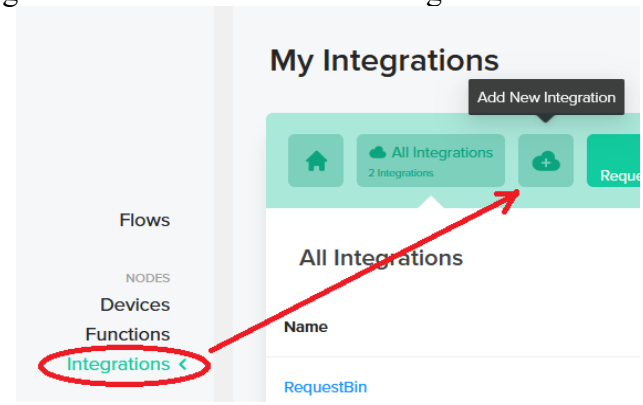
Follow the steps in the Light-Tracker Adding Device on Helium Console but instead of proceeding to the Cayenne myDevices Integration with Helium Console (at the bottom of the page) follow the next steps.

Sondehub Integration with Helium Console

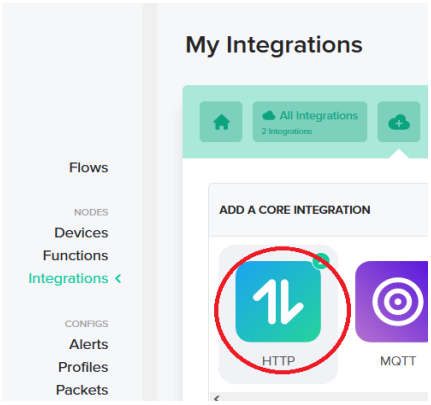
In a previous tutorial Adding Device on Helium Console you have successfully added a new device and seen your data flowing. The next step is to get that data in the correct format to SondeHub. The following steps show how.

Integrations

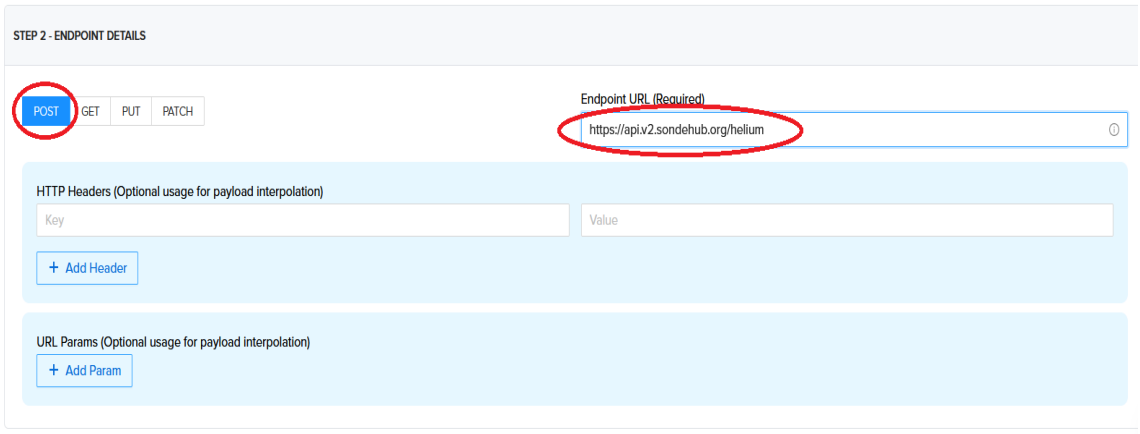
1) click on the "Integrations and then "Add New Integration" button.



2) select HTTP



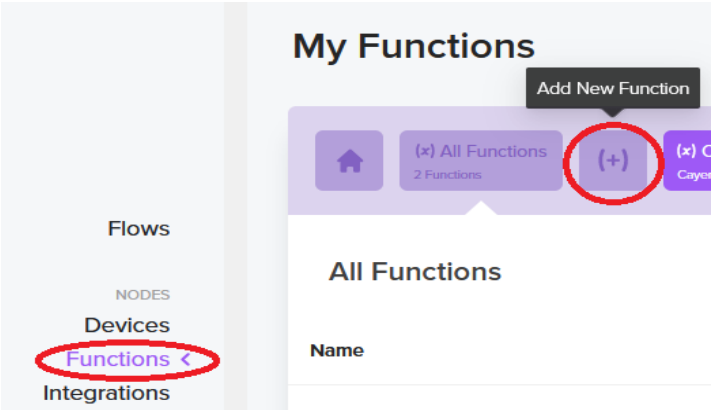
3) set up the SondeHub endpoint details: - see the Endpoint URL to: `https://api.v2.sondehub.org/helium` and the endpoint type to "`POST`"



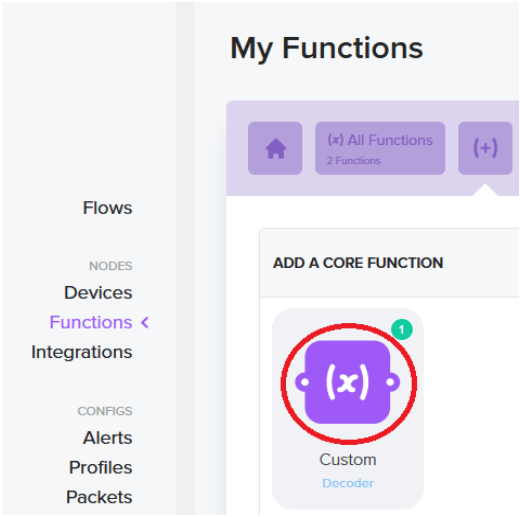
At the bottom of the page give the integration a name (such as “SondeHub”) and add it.

Functions

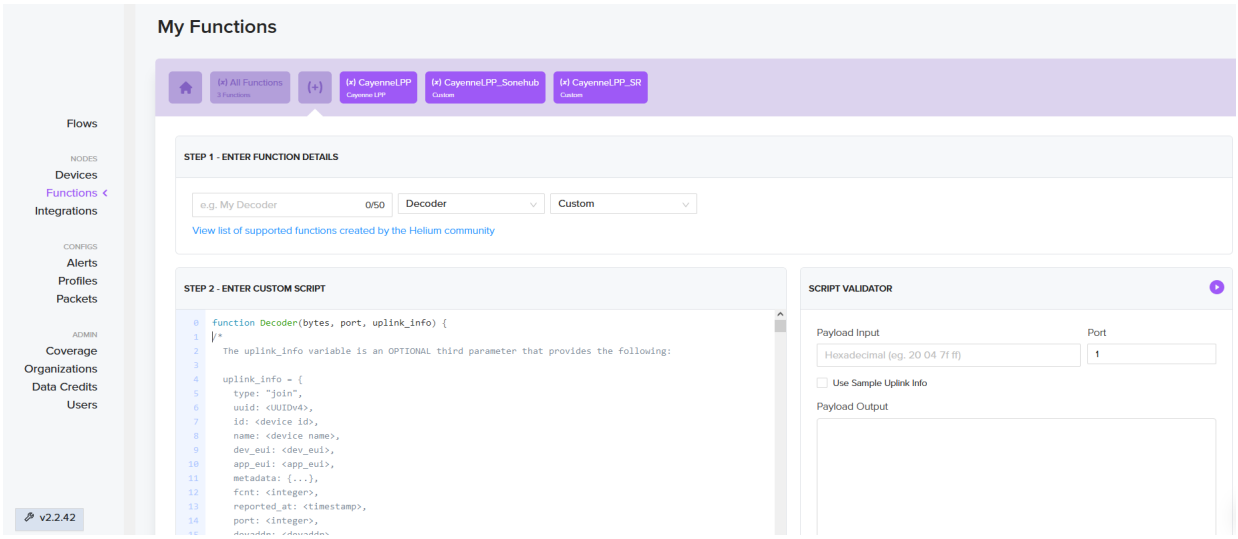
4) The next step is to create a Function – this is used to convert the Cayenne LPP data collected by Helium into the format required by SondeHub. Click on “Functions” and “Add New Function”.



Then click on “Custom”.



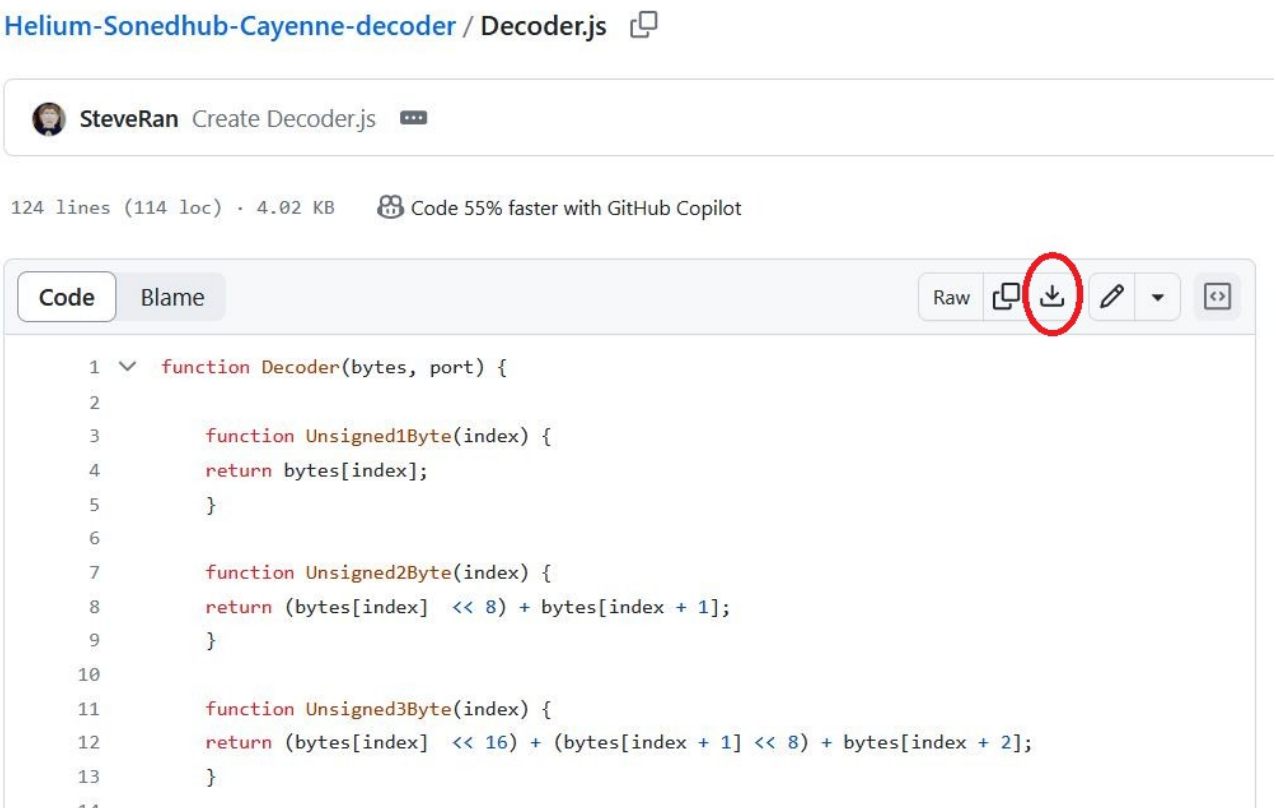
Once inside the Custom Decoder page there are a couple of steps to complete.



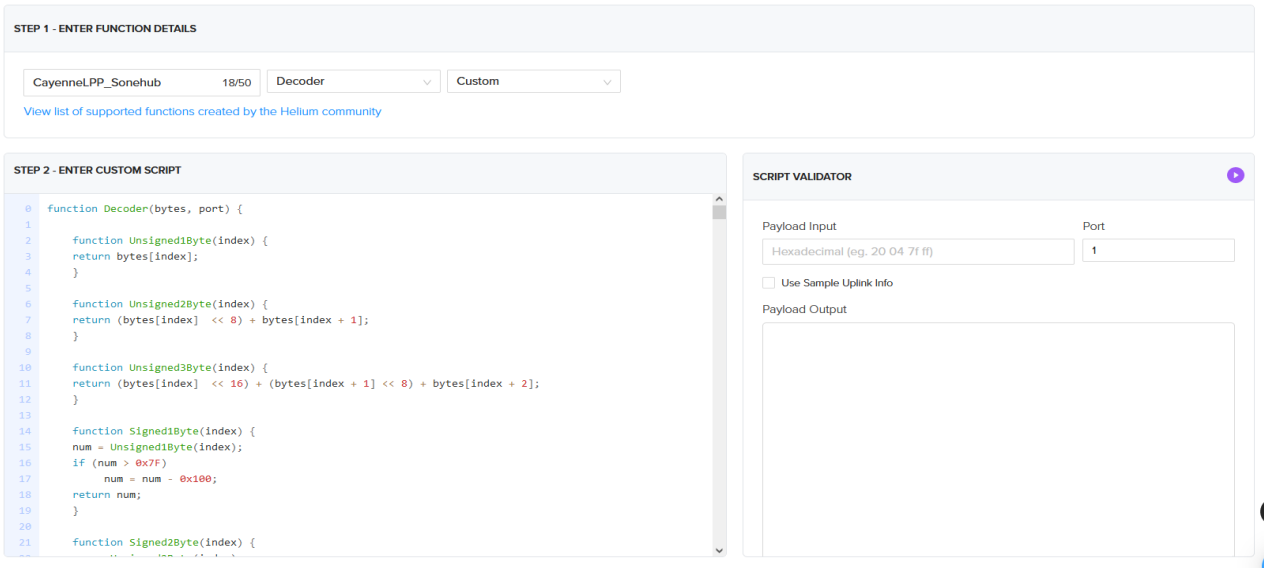
1: Give the Function a name such as “CayenneLPP_SondeHub”

2: Download Decoder.js from here:

https://github.com/SteveRan/Helium-Sonedhub-Cayenne-decoder/blob/main/Decoder.js



Delete the prototype custom script and replace with the downloaded script.



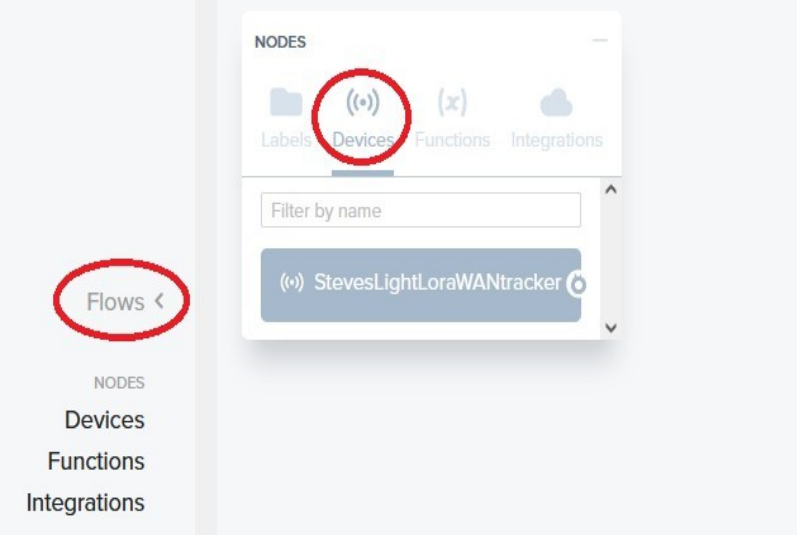
Save the Function (Bottom Right).

The script converts the Cayenne LPP formatted raw data into the JSON format required by SondeHub – giving it the correct field names. This Script is specific to the Light-Tracker – if your using a different Cayenne LPP tracker you will probably have to modify the code.

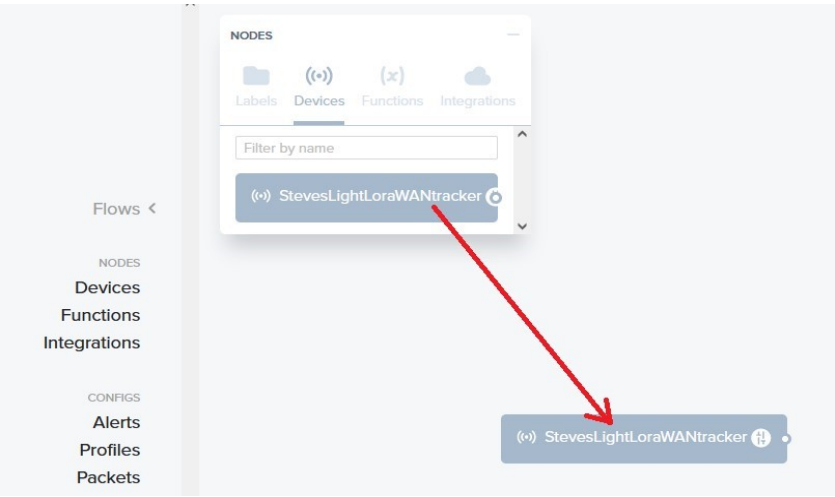
The final step is to connect your Device through the Function to your Integration. To do this use “Flows”.

Flows

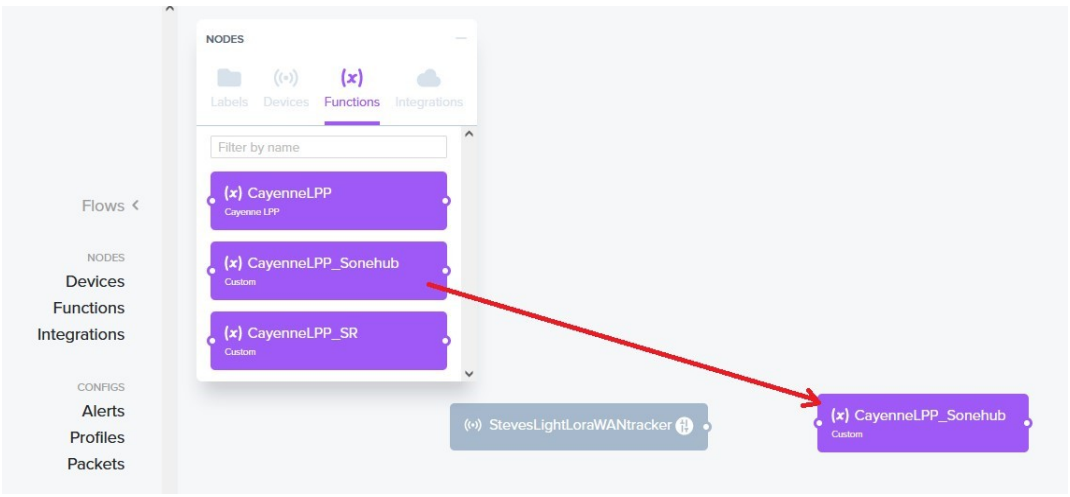
5) In the “Flows” page select “Devices”



Drag your device into the flows page:

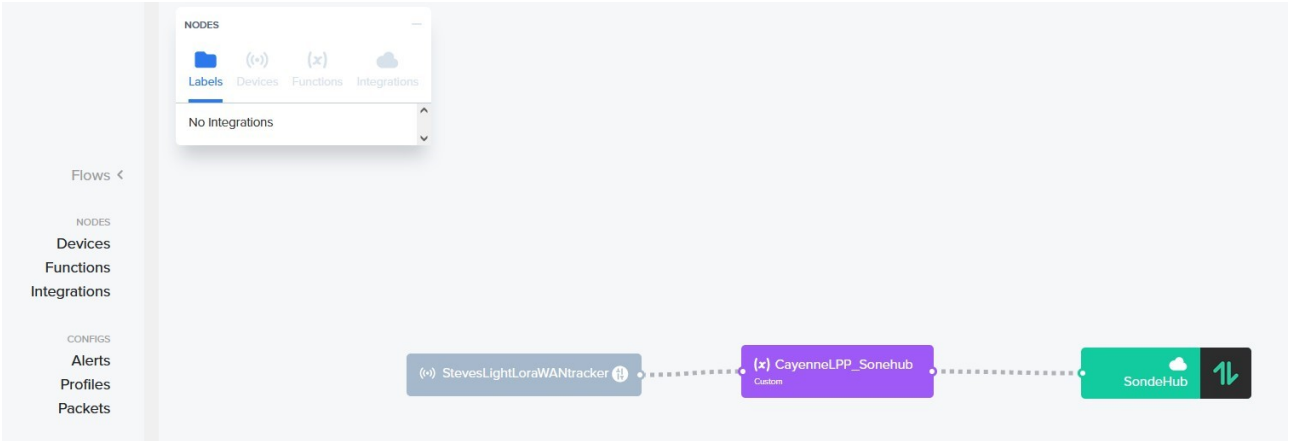


Then drag your Function:

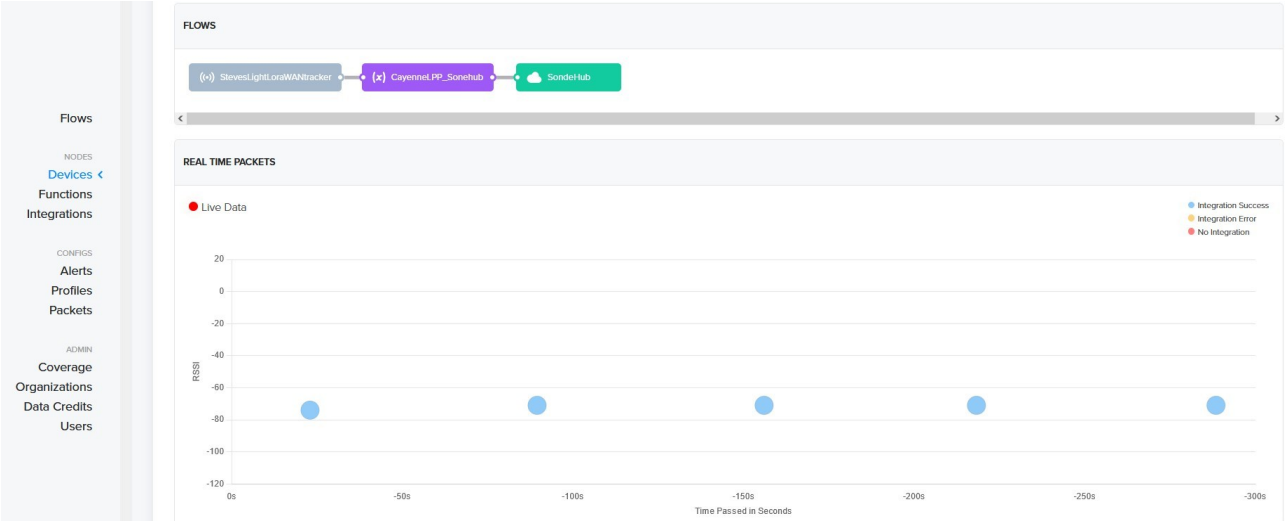


Then your Integration:

Finally connect your device to the Function and the Function to the Integration. This is achieved by clicking on a circle, holding and dragging to another. When the pointer is over circle it will change to a '+'.

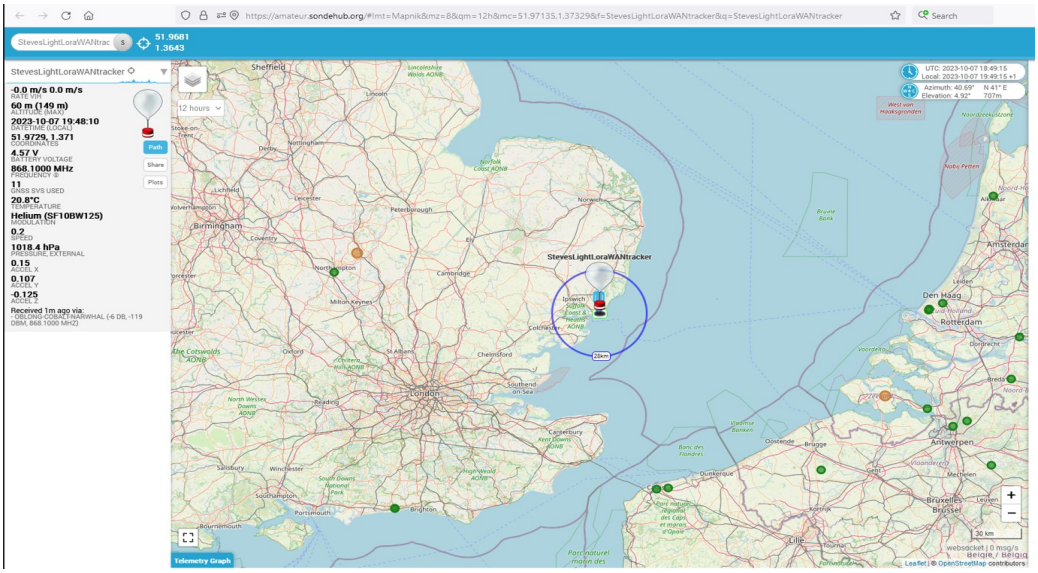


Once completed data should be flowing from your device to Sondehub. To check this go back to the “Devices” page.



The tracker is only operational when light blue dots appear in the Event log screen.

Finally check data is appearing on [SondeHub]:



Click on “Plots” to see graphed data.

Further Information

Flows: https://www.youtube.com/watch?v=XrbN1CHApBI
Functions: https://www.youtube.com/watch?v=UNUOLbIKXww
Integrations: https://www.youtube.com/watch?v=lnERw1f7TGE
https://docs.helium.com/console
https://github.com/projecthorus/sondehub-infra/wiki/Helium-Network-Gateway

Further Help

You can check the format of your data is correct for Sondehub by using a RequestBin integration:

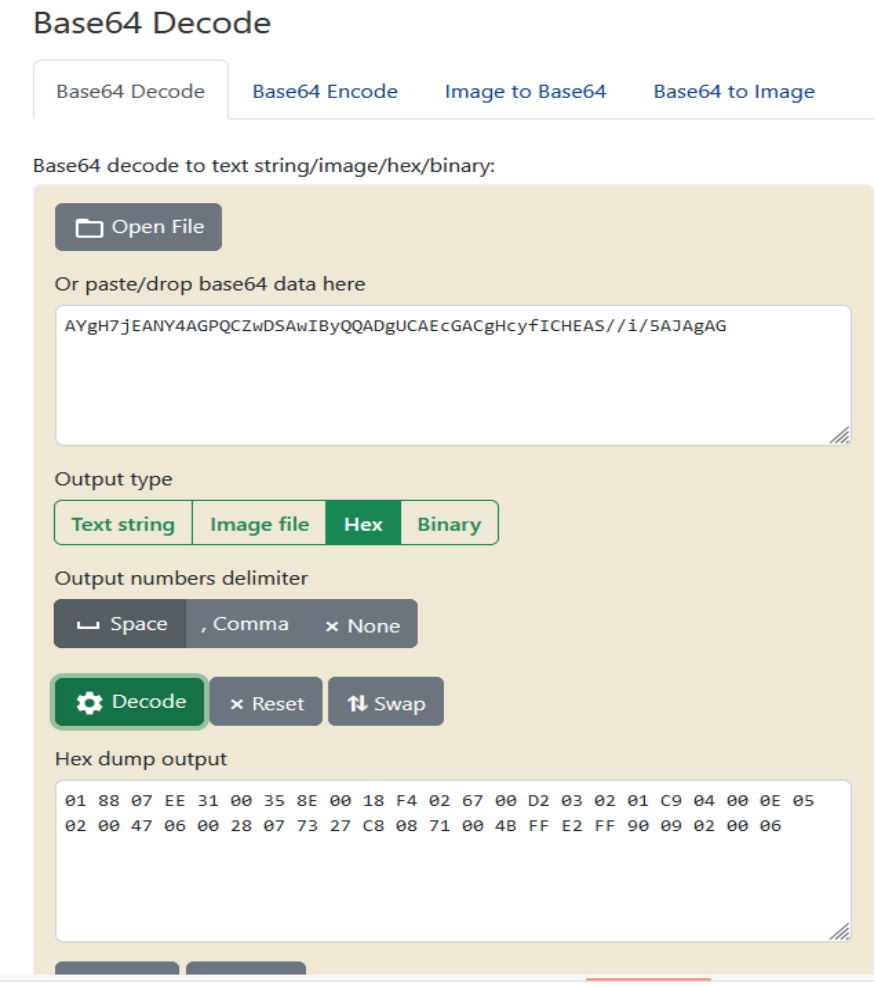
https://public.requestbin.com - its simplest to create a public bin.

The following is useful if you want to convert payload data:
https://www.rapidtables.com/web/tools/base64-decode.html

To check your Function is working correctly, using RequestBin take the base64 data from a Cayenne message:

```
"payload": "AYgH7jEANY4AGPQCZwDSAwIByQQADgUCAEcGACgHcyfICHEAS//i/5AJAgAG"
```

and pass it through the base 64 decoder to get the the equivalent Hex.



Finally paste in the Hex into the Flows script validator and press the purple play button. Check the decoded payload output and compare with the SondeHub specification.