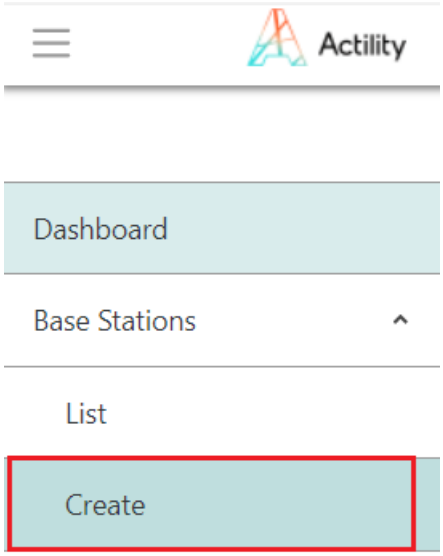
Configuration in Network Server

1. THINGPARK COMMUNITY (ACTILITY) NETWORK SERVER

1.1. Add Tektelic LoraWAN gateway Model T0005204 to ThingPark Enterprise SaaS Community

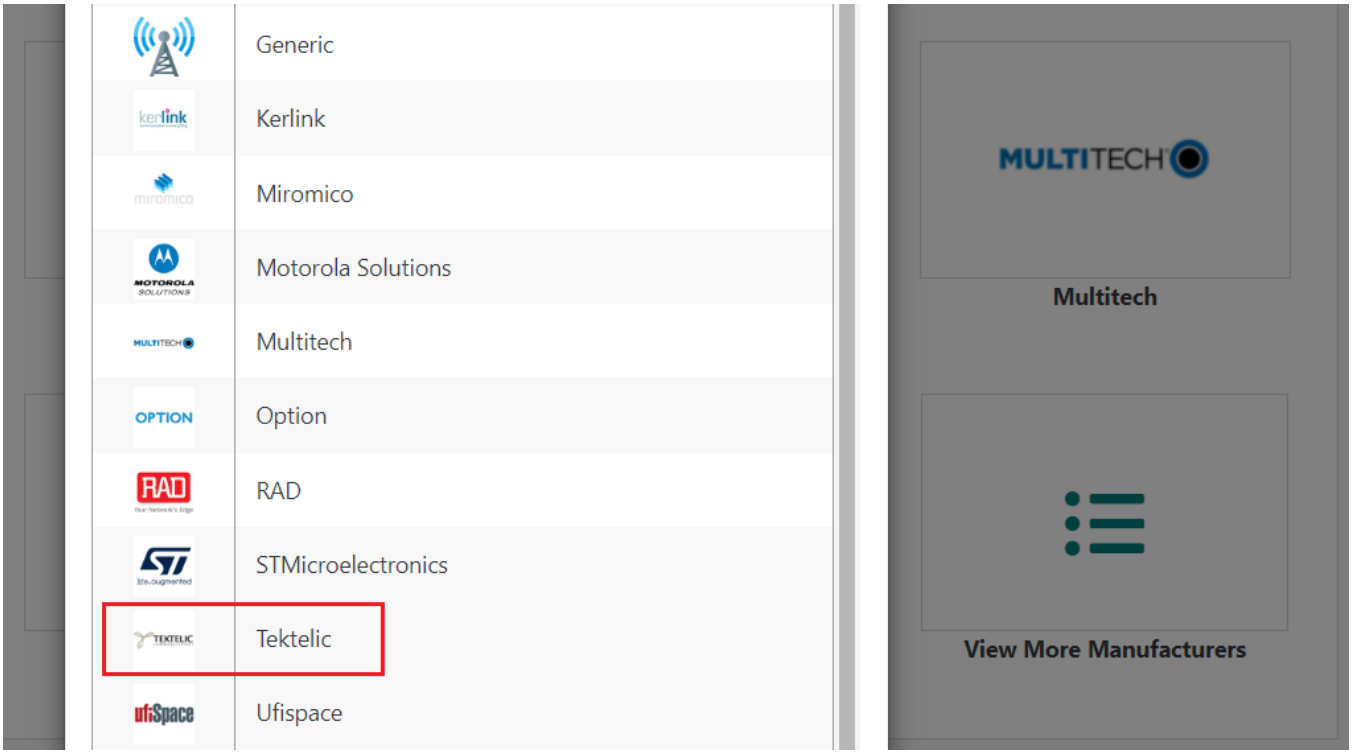
1. Log in to your ThingPark Enterprise account via the link: https://community.thingpark.io/tpe/

2. Browse on the left panel to **Base Stations**, click the drop-down menu then click **Create**.

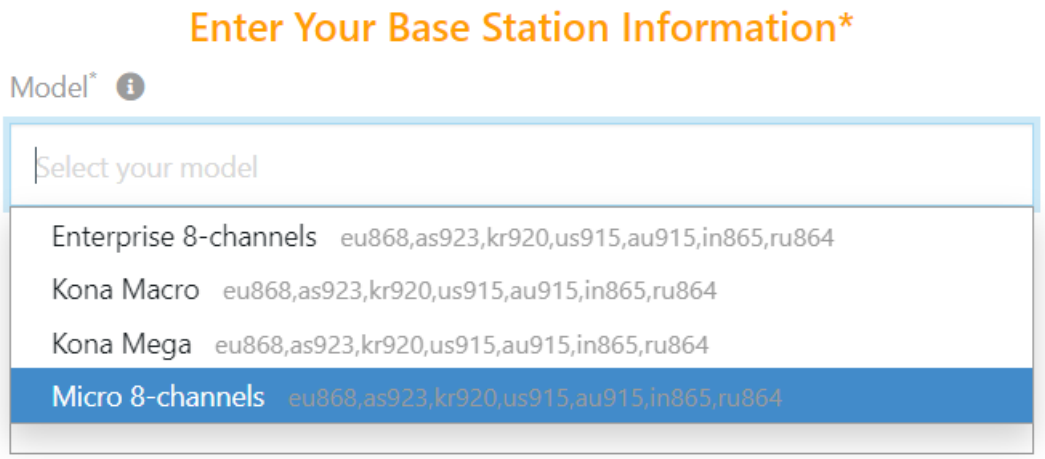


3. Select the base station's **Tektelic**.

If you do not find the Tektelic, click View More Manufacturers.



4. On the following screen, select the Model: **Micro 8-channels** from the drop-down list.



5. Fill the form as below table:

Field	Input field
Name	As user-defined
LRR-UUID	Contact the Tektelic Support to get LRR-UUID for Thingpark. Details at link Instruction to get inf... | Online Product Manuals & Datasheets (daviteq.com)
RF region	Site frequency plan (US915, EU868..)
Public Key	Contact the Tektelic Support to get LRR-UUID for Thingpark. Details at link Instruction to get inf... | Online Product Manuals & Datasheets (daviteq.com)

Input exactly as above **Input field** column, except **Name** field is user-defined and is different from existing base station name on the network server.

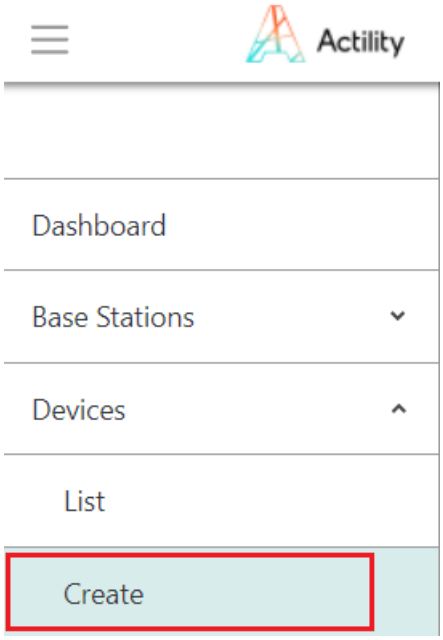
After filling registration form, click **CREATE** to complete adding base station to the network server

1.2. Add Daviteq's LoRaWAN devices to ThingPark Enterprise SaaS Community

ThingPark Enterprise supports all Classes of LoRaWAN® devices. By default, the sensor supports Over-the-Air Activation (OTAA) with local Join Server that is programmed at the factory.

> Manual provisioning of OTAA devices using a local Join Server. To learn more, see Activation modes.

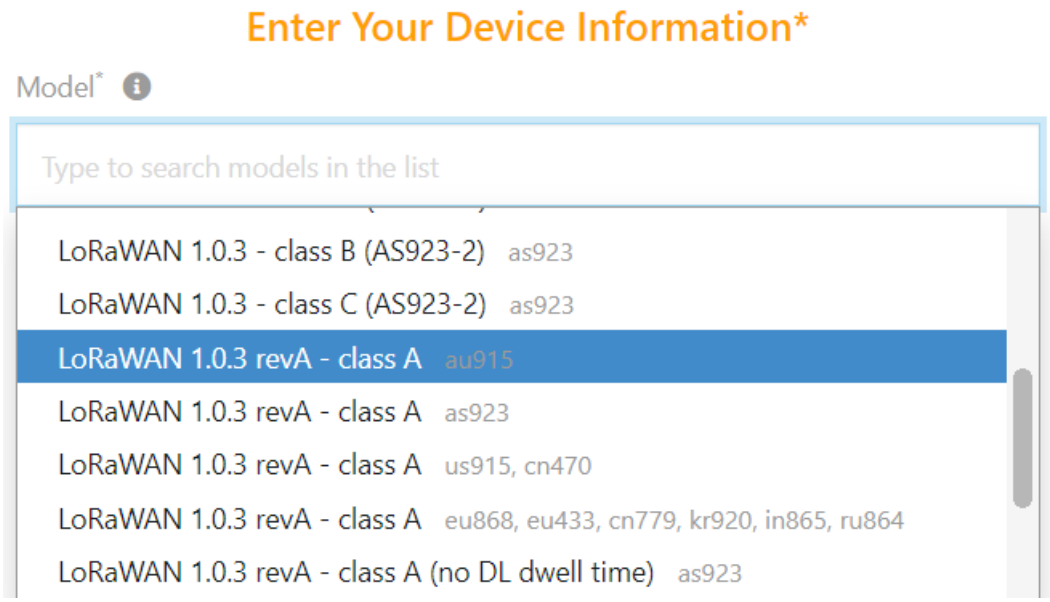
1. At left panel of the screen of the Thingpark GUI, click **Devices** > **Create** from the dashboard.



2. Select the **Generic** supported by your device on your screen.



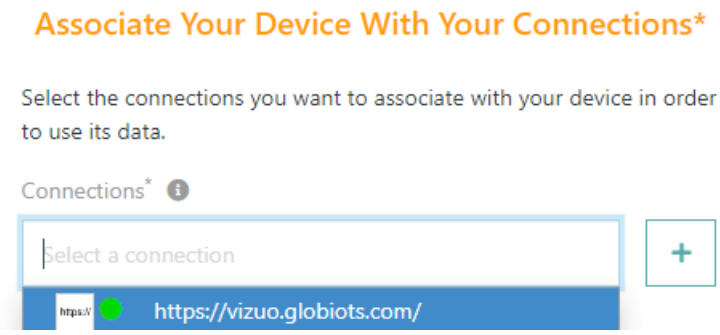
3. Select the Model of **LoRanWAN 1.0.3 revA - class A** with correct frequency plan



4. Fill the form as below table:

Field	Input field
Name	As user-defined
DevEUI	DevEUI is on label of the device or is on the device memory map
Activation mode	Over-the-Air Activation (OTAA) with local Join Server
JoinEUI	Input JoinEUI. This value is read on memory map or is on the label of the device. The default value is 0102030405060708
AppKey	Input AppKey.This value read on memory map or on the label of the device. The default value is 0102030405060708090A0B0C0D0E0F10

In addition to filling the form, option to select the connection between Thingpark and Daviteq application (Globiots)



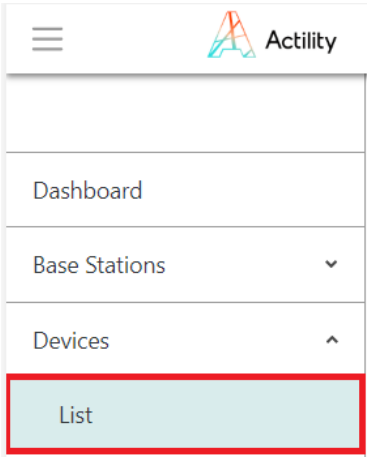
After filling the registration form, please click **CREATE** to add devices to the network server

1.3. Send a downlink frame from Thingpark Network Server to the device

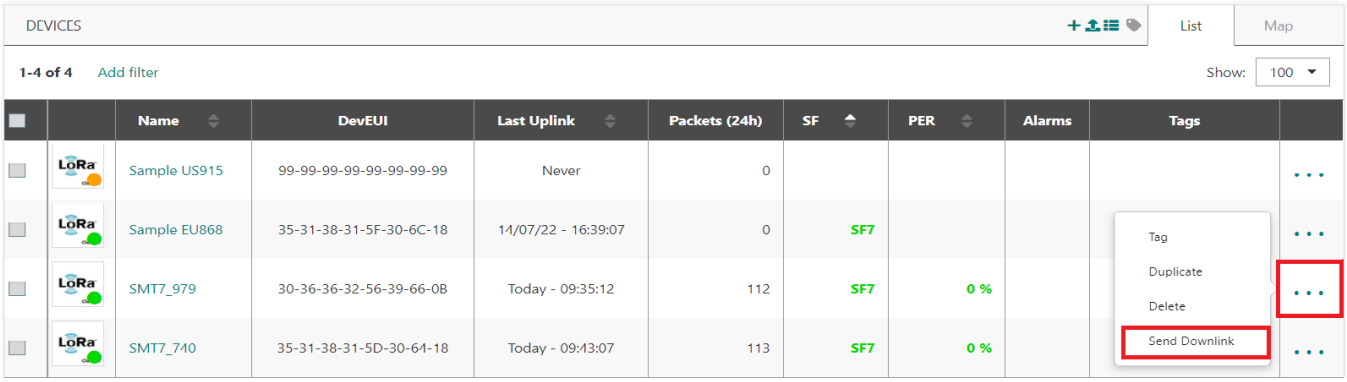
Follow below steps to send downlink frame from Thingpark Network Server to the device:

> This functionality is active only when a connection is associated to the device (one of the color codes with a green bullet).

1. Navigate to the left panel, click the Devices's drop-down menu then click List.

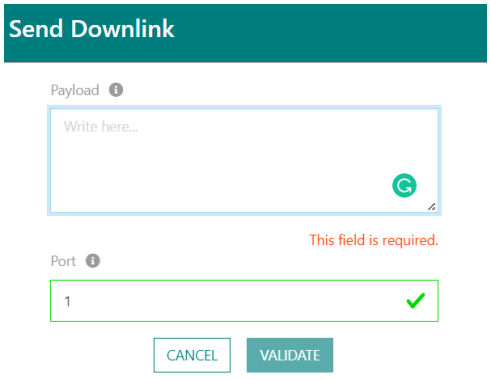


2. Browse the right side in the DEVICES, and click ... icon of the device and click Send Downlink.



3. Input downlink code to Payload field and input 1 to the Port field, and then click VALIDATE.

> The downlink data is added to the devicedownlink queue in network server. The downlink is sent after the network server receive an uplink from the device.



2. THINGS STACK (THE THINGS NETWORK) NETWORK SERVER

2.1. Add LoraWAN gateway to The things Stack network server.

1. Log in to you're The Things Stack account
2. Click tab **Gateways**, click **Add gateway** button

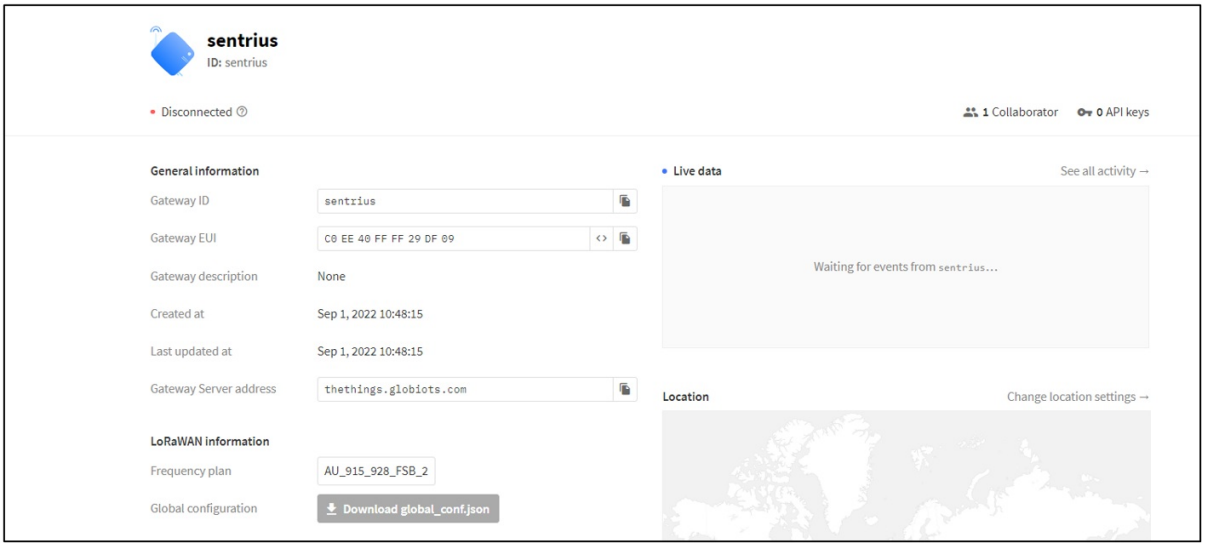


3. Fill the form as below table:

FIELD	INPUT
GatewayEUI	EUI of gateway. This information can be found on the gateway's label
Gateway name	As user-defined
Gateway ID	As user-defined
Frequency plan	Input right frequency plan (Ex: Australia 915-928 MHz, FSB 2 (used by TTN))

Input exactly as above Input column, except Gateway Name field and Gateway ID field is user-defined and is different from existing gateway name and gateway ID on the network server.

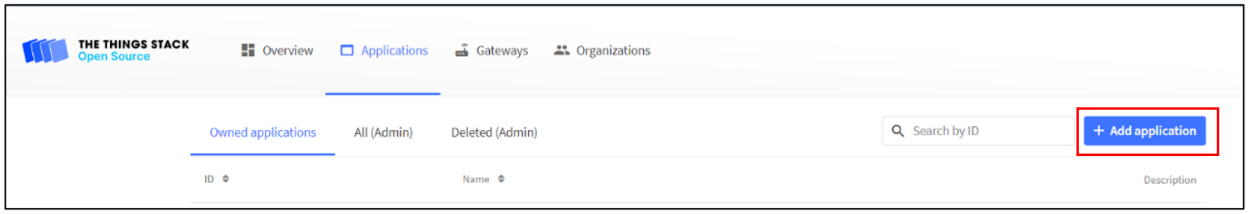
After filling registration form, click **CREATE GATEWAY** to complete adding base station to the network server.



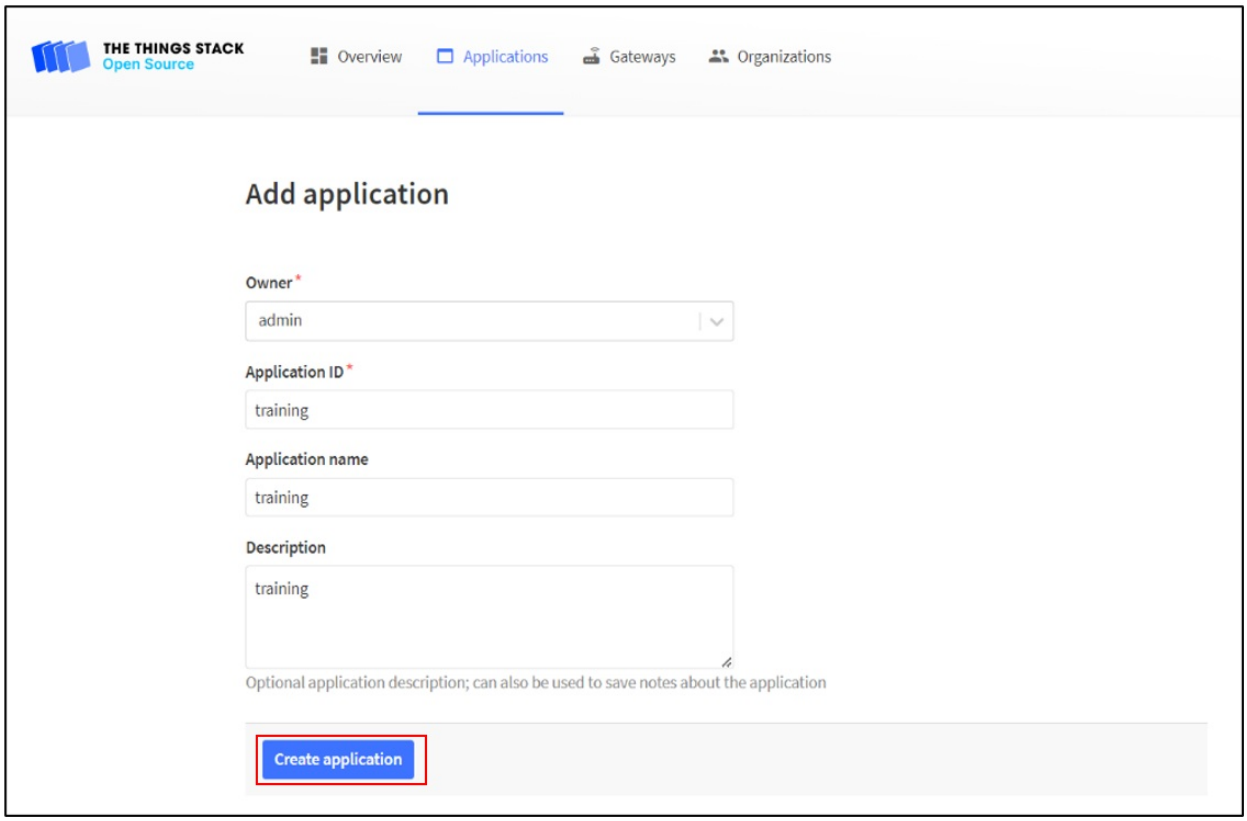
2.2. Add Daviteq's LoRaWAN device to The Things Stack network server

The Things Stack supports all Classes of LoRaWAN® devices. By default, the sensor supports Over-the-Air Activation (OTAA) with local Join Server that is programmed at the factory.

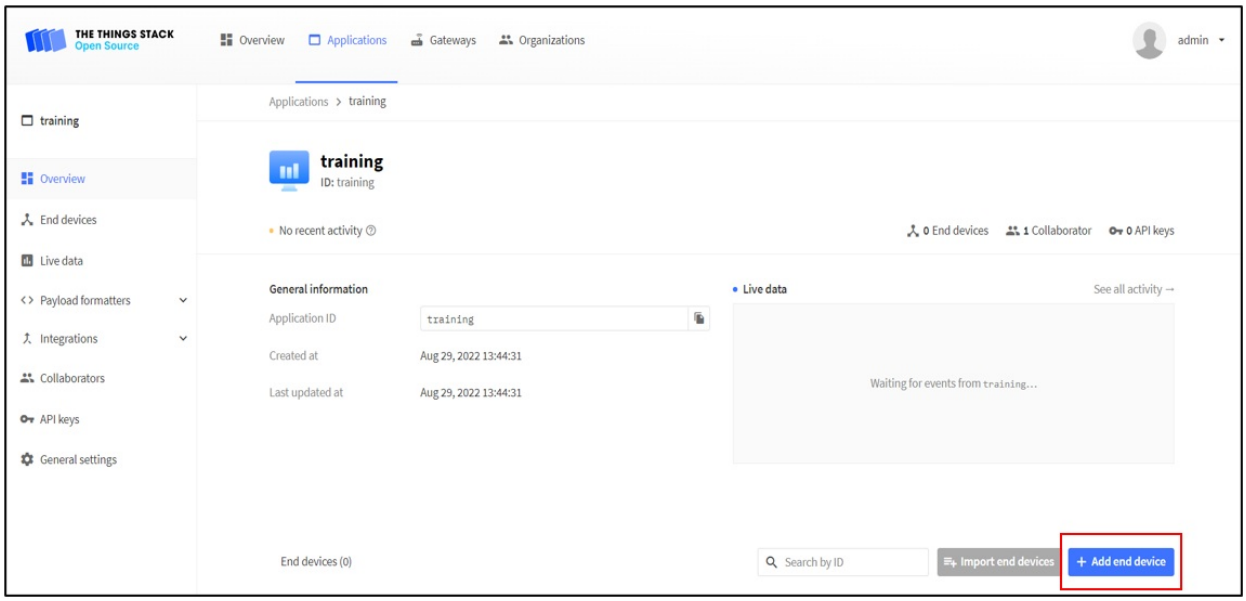
1. Browse on the top panel, click tab ***Application***, click ***Add application*** button to create an application



2. Fill in the information fields as user-defined then select ***Create application***



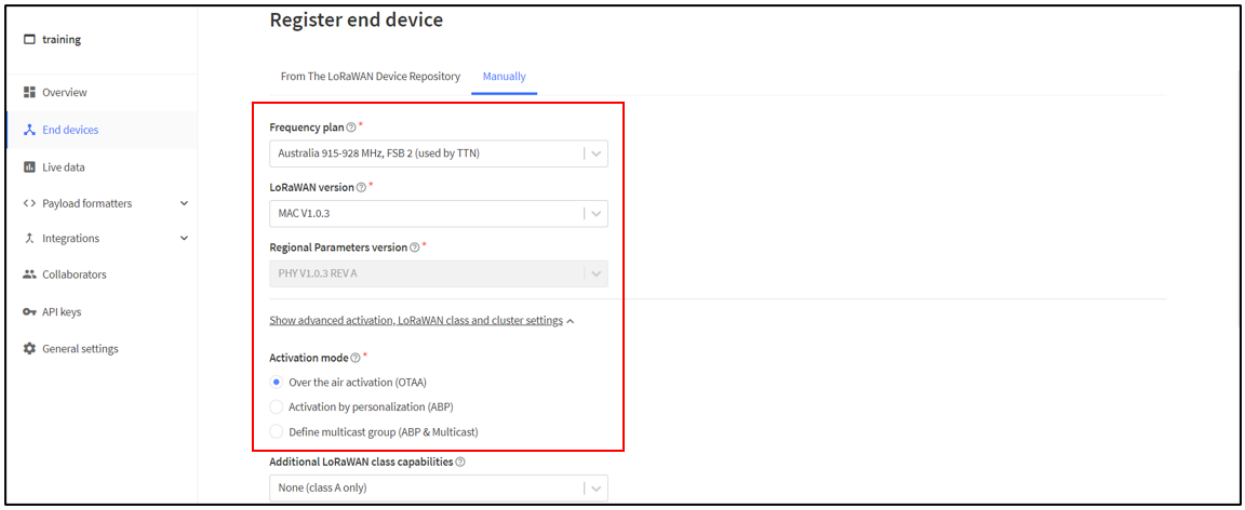
3. After the application is created successfully, select ***Add end device*** to register end device (LoraWAN sensor)

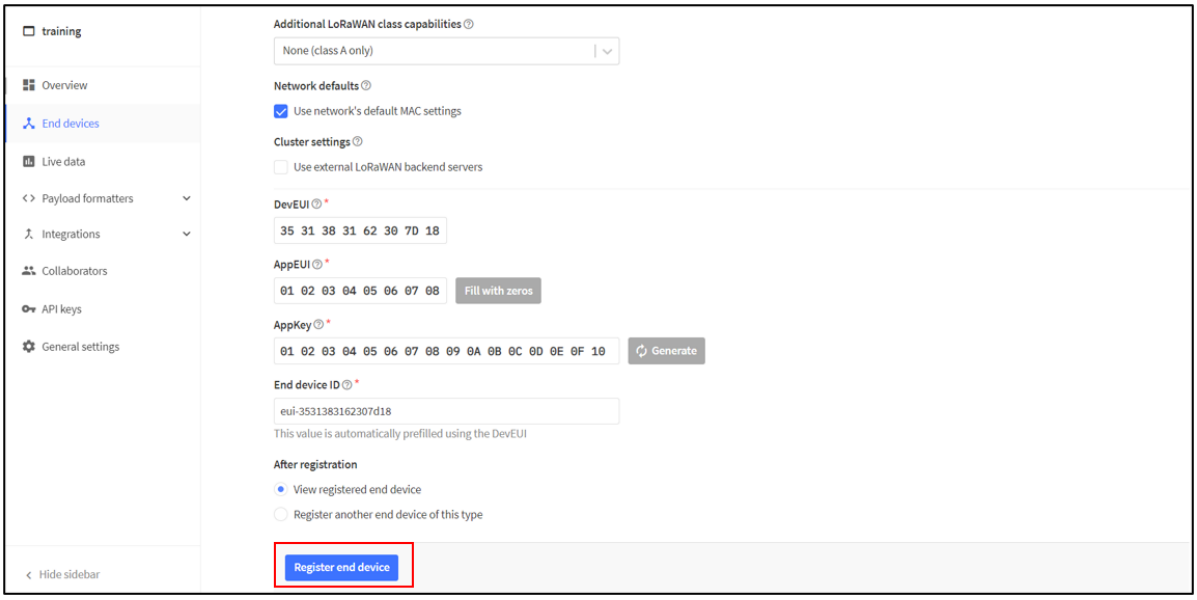


4. Fill the form as below table:

FEILD	INPUT
Frequency name	Input correct frequency plan (Ex: Australia 915-928 MHz, FSB 2 (used by TTN))
DevEUI	As DevEUI on label of the device or read from device memory map
Activation mode	Over-the-Air Activation (OTAA) with local Join Server
AppEUI	Input AppEUI. This value read on device memory map or on the label of the device. The default value is 0102030405060708
AppKey	Input AppKey.This value read on device memory map or on the label of the device. The default value is 0102030405060708090A0B0C0D0E0F10
Lorawan version	Must be choose version 1.0.3

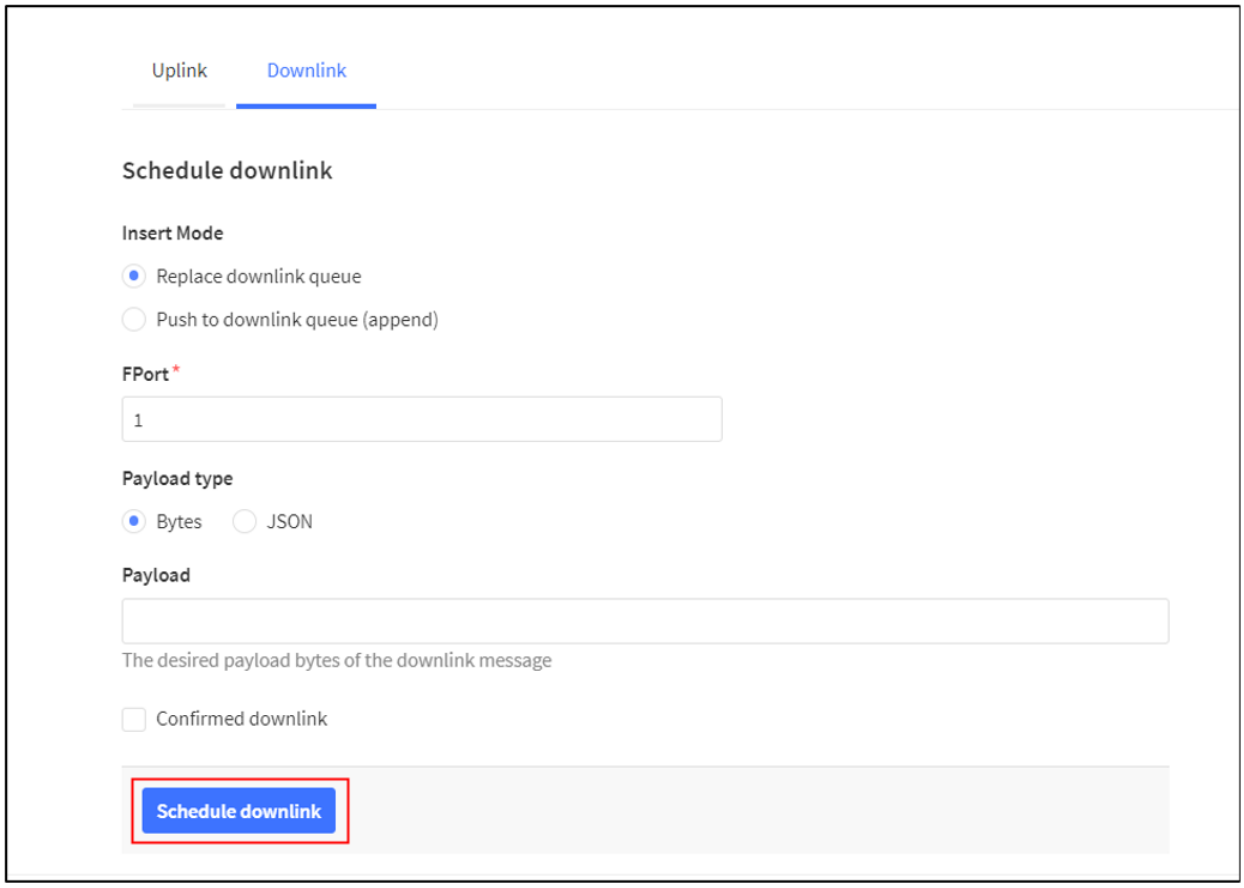
After filling the registration form, please click ***Register end device*** button to add the device to the network server





2.3. Send a downlink frame from The Things Stack Network Server to the device

1. Select the device to send down link
2. Input 1 to the ***FPort*** and input the downlink data in the payload field, untick**Confirmed downlink** and click ***Schedule downlink***



Note:
-DON'T check the **Confirmed downlink** for downlink the message

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