

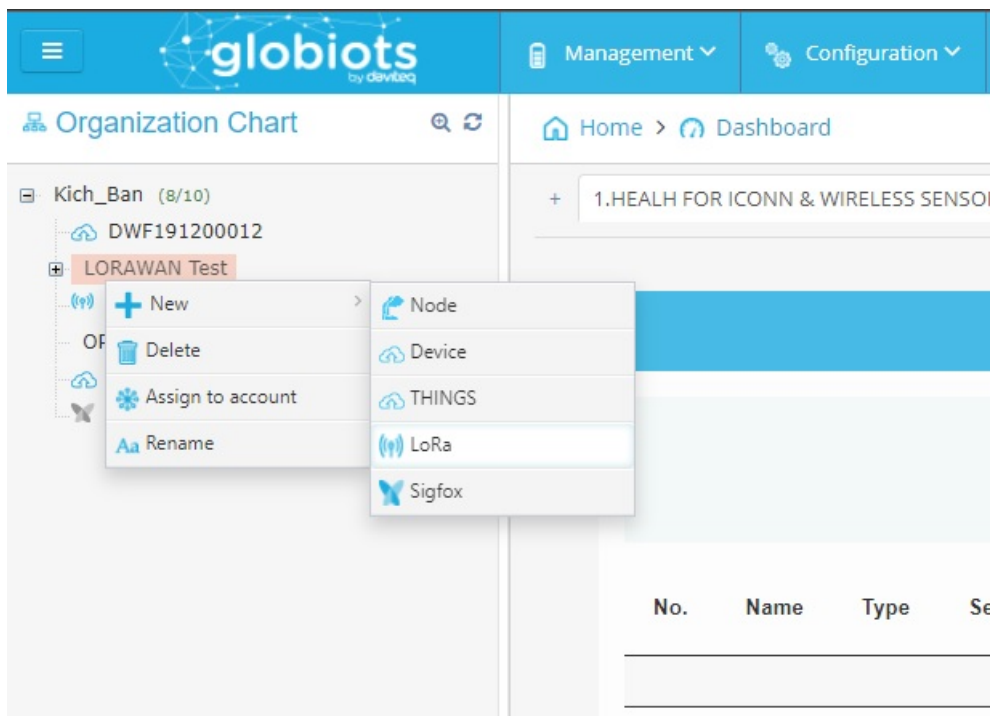
Configuration instructions to forward LoraWAN sensor data from Thingpark to Globiots

1. Add a LoraWAN sensor to Globiots

Step 1: Open web-browser and go to link:<https://vizuo.globiots.com/login>

Step 2: Sign in with provided username and password.

Step 3: At Organization Chart, right-click to desired Node => Select New => Select Lora.



Step 4: Input information of LoraWAN sensor and Acility Network Server

At the tab Basic Information, input LoraWAN sensor information in the form:

- Name: input 12 characters of user-defined sensor name.
- DevEUI: input sensor DevEUI. The DevEUI (16 characters) is on the sensor label or is read out from sensor memory.
- Device ID: click **Generate** button to get device ID

Home > + Add Device

+ Add Device

Basic Information | Network Server Config

Name* 012345678912

DevEUI* 3531383159306D18

Device ID (Text)* 0.0.1.239 Generate

Device ID (Hex) 000001EF

Phone number

Created Date*

Last Updated*

Attached Date*

Status* Attached

GPS* Auto Update

Latitude

Longitude


Device status

At tab Network Sever Config, select category of Activity Thingpark, select relavant LoRa Device type and fill the sensor DevEUI in Downlink Message section. Then click Save button to complete adding the sensor to Globiots

Basic Information | Network Server Config

Network Server

Category* Activity Thingpark



LoRa Device

Category* Daviteq LoRaWAN Tilt Sensor WSLRW-AG

Payload Decoder

Auto Decode ☒

System will be decode by [Daviteq LoRaWAN Tilt Sensor WSLRW-AG]

Uplink Message ?

Downlink Message

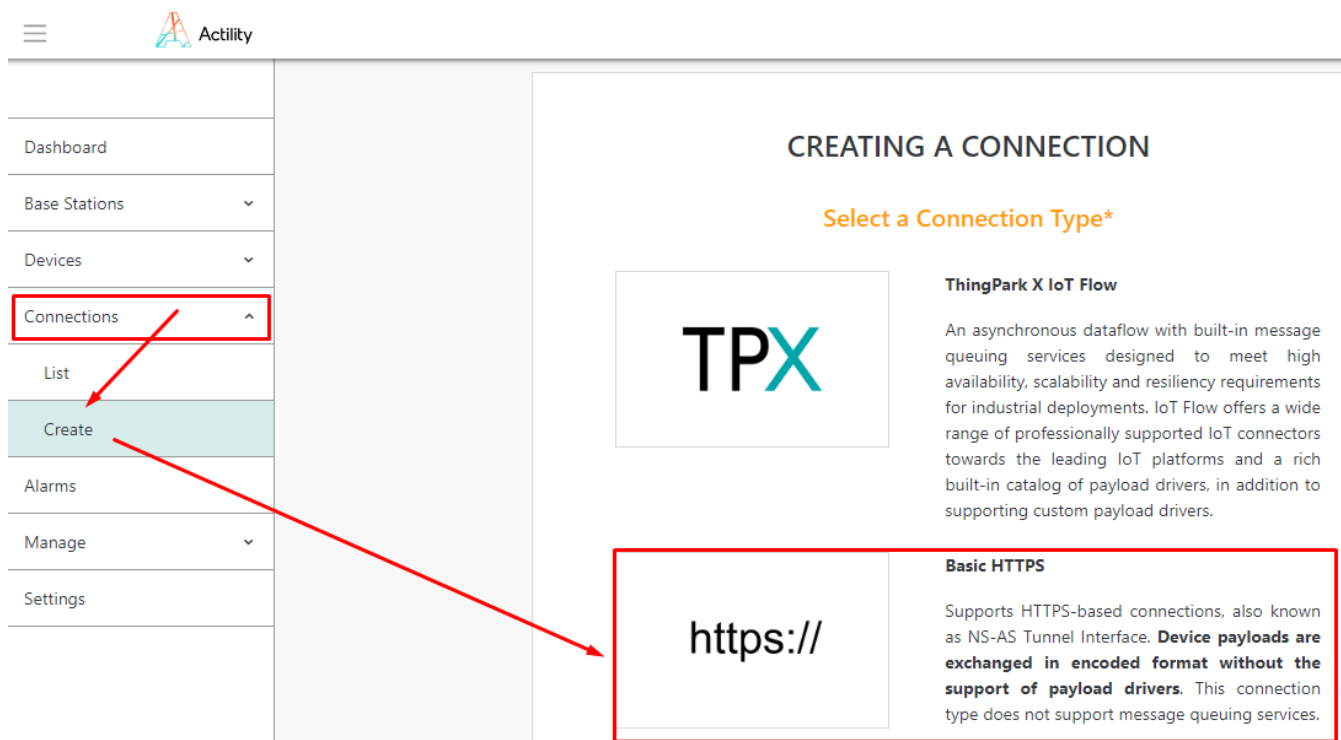
Downlink format data by [Daviteq LoRaWAN Tilt Sensor WSLRW-AG]

DevEUI 3531383159306D18

2. Create a connection from Thingpark to Globiots

Note: If the connection from Thingpark to Globiots is available, skip section 2

Step 1: Log in to your ThingPark Enterprise account via the link: <https://community.thingpark.io/tpe/> and then browse on the left panel to **Connections**, click the drop-down menu, click **Create**, click section **https://** to create https connection from Thingpark to Globiots



Step 2: Input information to setup the connection as below details, and click Create to complete creating the connection.

Set Your Connection*

Name* ⓘ

globiots-webhook ✓

URL* ⓘ

https://resources.globiots.com/rest/api/v1/lora-service/uplink-message ✓

Content Type* ⓘ

JSON

Tunnel Interface Authentication Key* ⓘ

fe-c4-1c-70-93-5f-41-ee-8d-6d-7e-51-36-47-59-07

Custom HTTP Headers ⓘ

Authorization: Basic c3VwZXJhZG1pbl9hcHBfa2V5OnN1cGVyYWRtaW5fc2... x

Name ⓘ	Value ⓘ
Authorization ✓	Basic c3VwZXJhZG1pbl9hc ✓

Filled information is from the Uplink Message section of the LoraWAN sensor on Globiots (At the Organization Chart panel of Globiots, click the LoraWAN sensor, click tab Network Server Config)

Uplink Message ?

The Base URL:

Path:

The HTTP method to use:
POST

Authorization:

Header name: Authorization

Header value:

Set Your Connection*

Name*

URL*

Base URL Path

Content Type*

Tunnel Interface Authentication Key*

Custom HTTP Headers

Authorization: Basic c3VwZXJhZG1pbl9hcHBfa2V5OnN1cGVyWWRtaW5fc2VjcmV0X2tleQ==

Name	Value
Authorization	Basic c3VwZXJhZG1pbl9hcHBfa2V5OnN1cGVyWWRtaW5fc2VjcmV0X2tleQ==

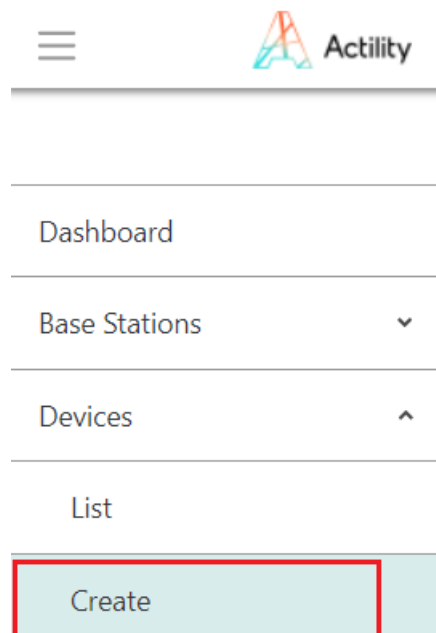
3. Add Daviteq LoRaWAN devices on ThingPark GUI.

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.

i Manual provisioning of OTAA devices using a local Join Server. To learn more, see [Activation modes](#).

Step 1: Log in to your ThingPark Enterprise account via the link: <https://community.thingpark.io/tpe/> and then browse on the left panel to **Devices**, click the drop-down menu, click **Create**



2. To add a device, select the **Generic** supported by your device on your screen.



Generic

3. Select the Model of **LoRaWAN 1.0.3 revA - class A** with correct Frequency Plan

Enter Your Device Information*

Model*

Type to search models in the list

LoRaWAN 1.0.3 - class B (AS923-2) as923

LoRaWAN 1.0.3 - class C (AS923-2) as923

LoRaWAN 1.0.3 revA - class A au915

LoRaWAN 1.0.3 revA - class A as923

LoRaWAN 1.0.3 revA - class A us915, cn470

LoRaWAN 1.0.3 revA - class A eu868, eu433, cn779, kr920, in865, ru864

LoRaWAN 1.0.3 revA - class A (no DL dwell time) as923

4. Fill the form as below table:

Field	Input field
Name	As user-defined
DevEUI	As DevEUI on label of the device
Activation mode	Over-the-Air Activation (OTAA) with local Join Server
JoinEUI	Input JoinEUI. This value read on memory map or 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, select the connection between Thingpark and Globiots which is created in section 2

Associate Your Device With Your Connections*

Select the connections you want to associate with your device in order to use its data.

Connections*

Select a connection

<https://vizuo.globiots.com/>

+

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

4. Monitor LoraWAN sensor data on Globiots

Step 1: At Organization Chart panel on Globiots, click to the LoraWAN sensor name added in Section 1

Step 2: Click Monitoring tab to view the latest sensor data.

The screenshot shows the Globiots web interface. On the left is an 'Organization Chart' sidebar. The main area is titled 'Edit Device: 121601212009 - 0.0.1.129'. It has four tabs: 'Basic Information', 'Network Server Config', 'Network Info', and 'Monitoring'. The 'Monitoring' tab is selected, showing the following information:

- Health Status:** connected
- Last Connection:** 03/08/2022 11:03:33 (O)
- Last Alarm:**
- Device Detection:** TTX Sensor WSLRW-AG
- Last Uplink Message:** 03/08/2022 15:33:32 (O)
- Frame Counter:** 97 **Frame Port:** 1
- Hex Data:** 0D C0 00 FF CA FD 24 02 E6
- Payload Fields:** Auto Decode
- Decoded Payload:**

```
[
  {
    "ALARM_6002": 0,
    "ALARM_6008": 0,
    "ALARM_600C": 0,
    "PARAMETER_6000": 99,
    "PARAMETER_6002": -5.4,
    "PARAMETER_6006": 0,
    "PARAMETER_6007": 13,
    "PARAMETER_6008": -73.2,
    "PARAMETER_600C": 74.2,
    "PARAMETER_6A51": 4,
    "timestampEpoch": 1659515612878
  }
]
```
- Data Processing:**

🕒 Revision #8

★ Created Wed, Aug 3, 2022 7:35 PM by [Vũ Hoàng Anh Tài](#)

✎ Updated Mon, Jan 9, 2023 1:47 AM by [Phan Van Luc](#)