

# Enroll a Device

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The LORIIOT Network Server supports both LoRaWAN 1.0.x and 1.1 devices and users can configure the type of device in the User Interface.

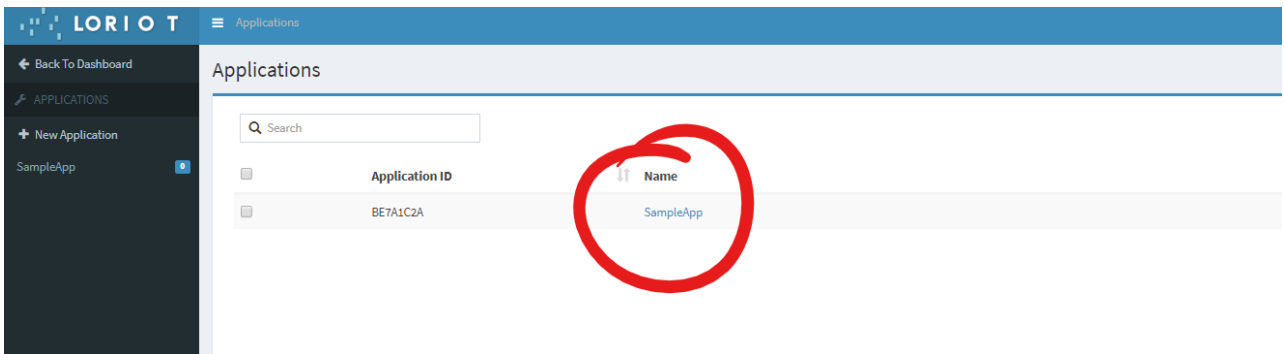
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## Adding new devices

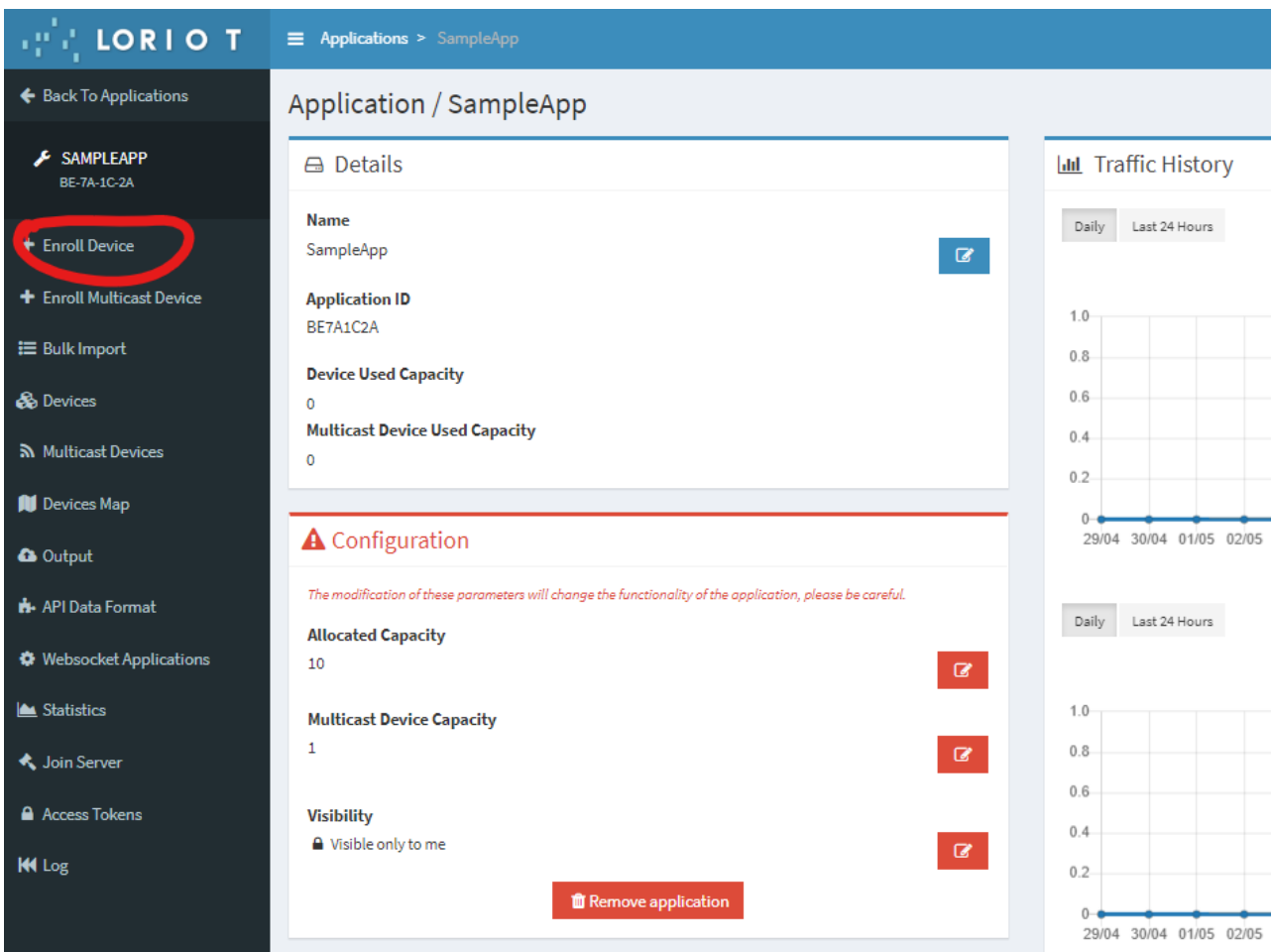
1 The landing page of the dashboard provides a general overview of your account.

On the left is the menu bar, you will see the applications tab, this is where we create new applications and add devices.

Select the **Applications** tab and choose the application by clicking on the application name, highlighted in blue.



3  
Now we can select the option **+ Enroll Device** to add a new device.



4  
We have the option to add the device to the Application via two different Enrollment Processes.

OTAA (Over-The-Air-Activation) is the recommended option for most devices, but ABP (activation by personalization) is also available.

The screenshot shows the 'Enroll A New Device' interface. On the left is a dark sidebar with navigation options: 'Back To Applications', 'SAMPLEAPP', 'Enroll Device', 'Enroll Multicast Device', 'Bulk Import', 'Devices', 'Multicast Devices', 'Devices Map', 'Output', 'API Data Format', 'Websocket Applications', and 'Join Server'. The main content area is titled 'Enroll A New Device' and contains the following fields:

- LoRaWAN® Version:** A dropdown menu showing 'LoRaWAN® 1.0.x'.
- Enrollment Process:** A dropdown menu showing 'OTAA'.
- Location:** A switch button labeled 'Disabled'.
- Details:**
  - Title:** An empty text input field.
  - Description:** A large empty text area.
  - Device EUI:** A text input field with the placeholder '16 hex digits, can include dashes'.
  - Application EUI:** A text input field with the placeholder 'AppEUI (16 hex digits, can include dashes)'.
  - Application Key:** A text input field with the placeholder 'APPKEY (32 hex digits)'.
  - Device Profile:** A dropdown menu showing 'undefined'.

At the bottom right, there are three buttons: 'Create Another' (disabled), 'Enroll' (blue), and 'Reset' (orange).

5  
With the "Location" switch button a static position per device can be defined.

The screenshot shows the 'Enroll A New Device' interface with the 'Location' switch button set to 'Enabled'. The form fields are as follows:

- LoRaWAN® Version:** A dropdown menu showing 'LoRaWAN® 1.0.x'.
- Enrollment Process:** A dropdown menu showing 'OTAA'.
- Location:** A switch button labeled 'Enabled'.
- Country:** A dropdown menu showing 'Switzerland'.
- City:** A text input field showing 'Thalwil'.
- Address:** A text input field showing 'Zürcherstrasse, 65'.
- ZIP Code:** A text input field showing '8800'.
- Latitude:** A text input field showing '47.2847174'.
- Longitude:** A text input field showing '8.565807699999999'.

To the right of the form is a Google Map showing the location of Thalwil, Switzerland, with a red location pin. The map includes labels for nearby cities like Zürich, Zug, Lucerne, and Bern.

6  
In order to register the device the following fields are required:

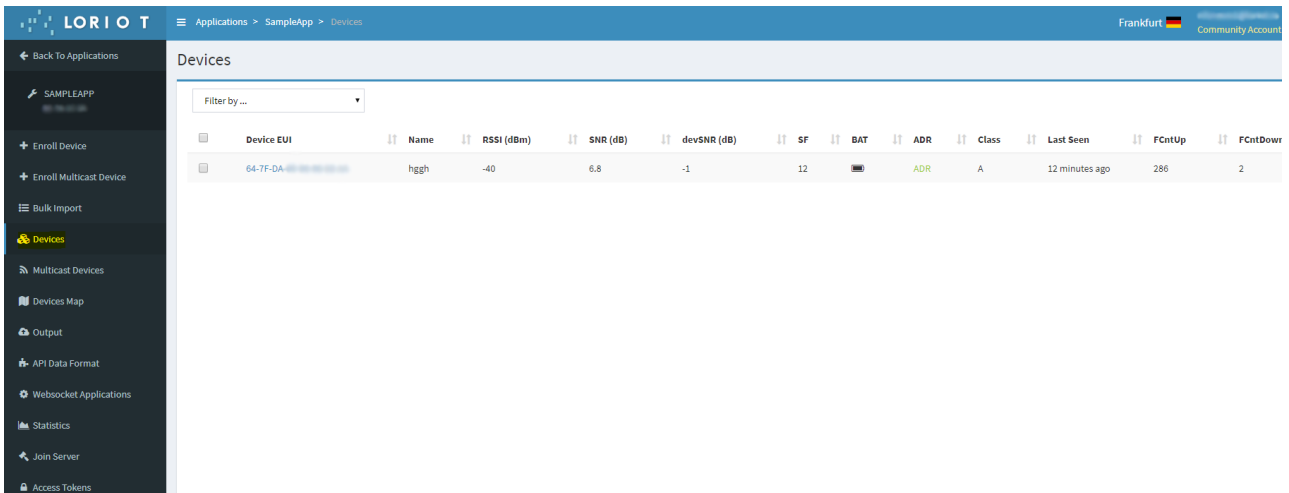
- Device Title (can be DevUI, Device model, your choice)
- DevEUI - 64-bit end-device identifier, EUI-64 (unique)
- AppEUI - 64-bit application identifier, EUI-64 (unique)
- APPKEY - AES128 Root Key (unique)

7  
The field **Device Template** is optional and should be left *undefined*, unless you are already familiar with [Device Templates](#).

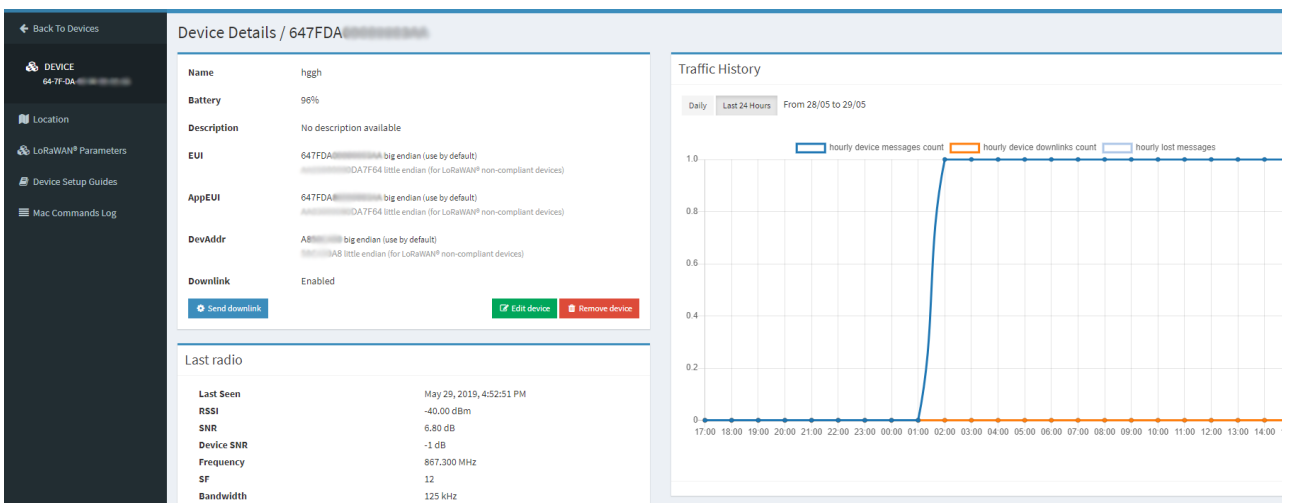
8  
Finally, Select **Enroll**.

## Device Information

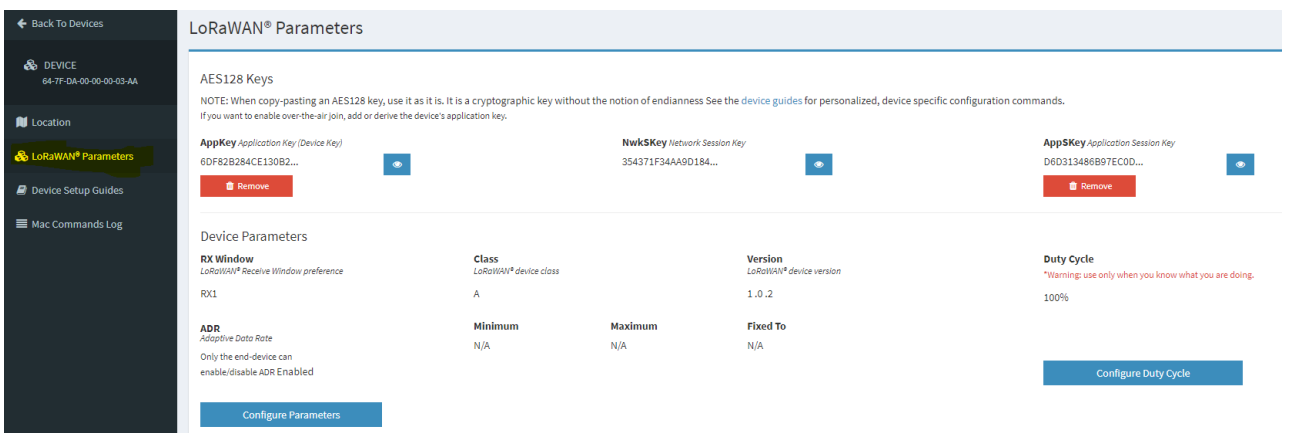
1  
Selecting "**Devices**" from the contents will display the newly added device(s)



2  
Selecting the DevEUI will access the device details



3  
Select LoRaWAN® Parameters, to display the device information, to view AppKey, NwkKey, AppsKey and edit any parameters



4  
Once you have added your device(s), the next step is to select the **Manage Outputs** for the incoming device data.