Gateway Configuration to Loriot network server

Check user manual for more details:

Getting started with the P-NUCLEO-LRWAN2 and P-NUCLEO-LRWAN3 starter packs - User manual

Gateway setup

1. Connect the NUCLEO-F746ZG board to a network router with an Ethernet cable through Ethernet connector CN14. Make sure that the router has DHCP service and Internet access (no password).
2. Connect the antenna to the antenna connector (CN2) (for P-NUCLEO-LRWAN3).
3. On the LoRa® gateway expansion board, connect an external 5 V supply through its USB Micro-B connector (CN1) to power the whole board. Important: power supply must be connected to the gateway shield USB port and not with the Nucleo USB port. On the Nucleo board, green LED LD6 (PWR) and LD4 (COM) light up. On the gateway shield, the green LED lights up.

Note: a USB wall adapter/charger is required to power the gateway.

Frequency band, LoRaWAN server, MAC address configuration

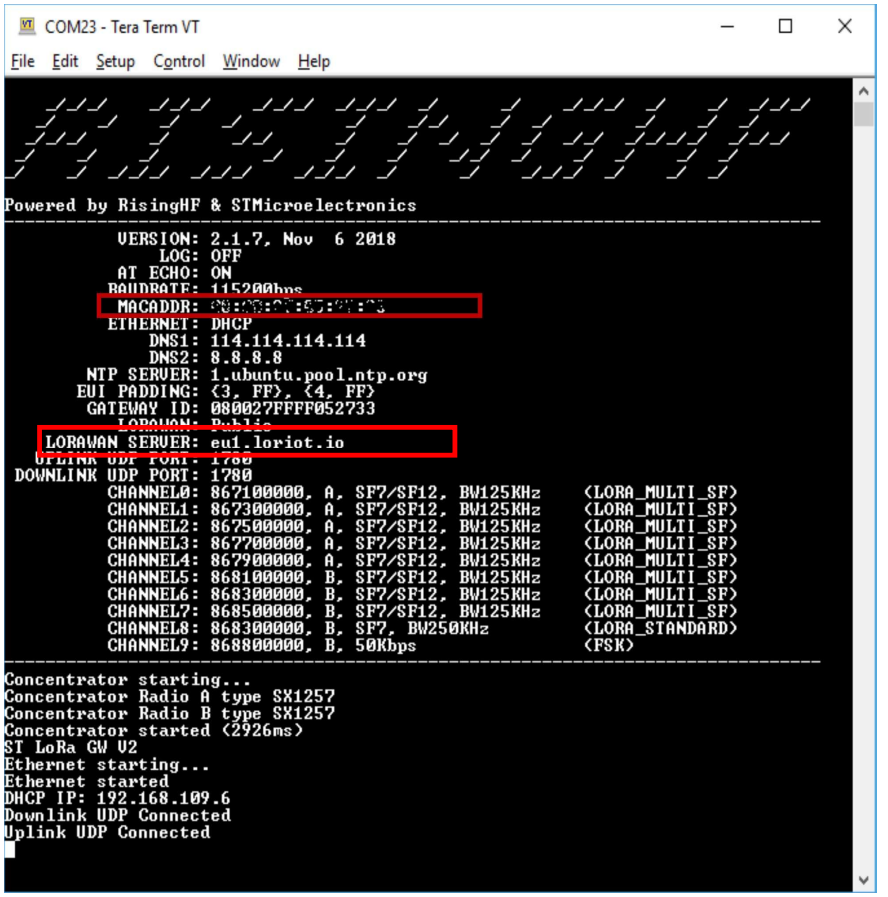
Using Tera Term emulation, it is possible to view the gateway parameters and perform LoRaWAN modification.

Press the reset button B2 (black button) to view the gateway

- frequency band using (AT+CH) command
- LoRaWAN server using (AT+PKTFWD) for Europe Frankfurt :

  AT+PKTFWD=eu1.loriot.io,1780,1780
- Changes the MAC address if needed. Use (AT+MAC) command.

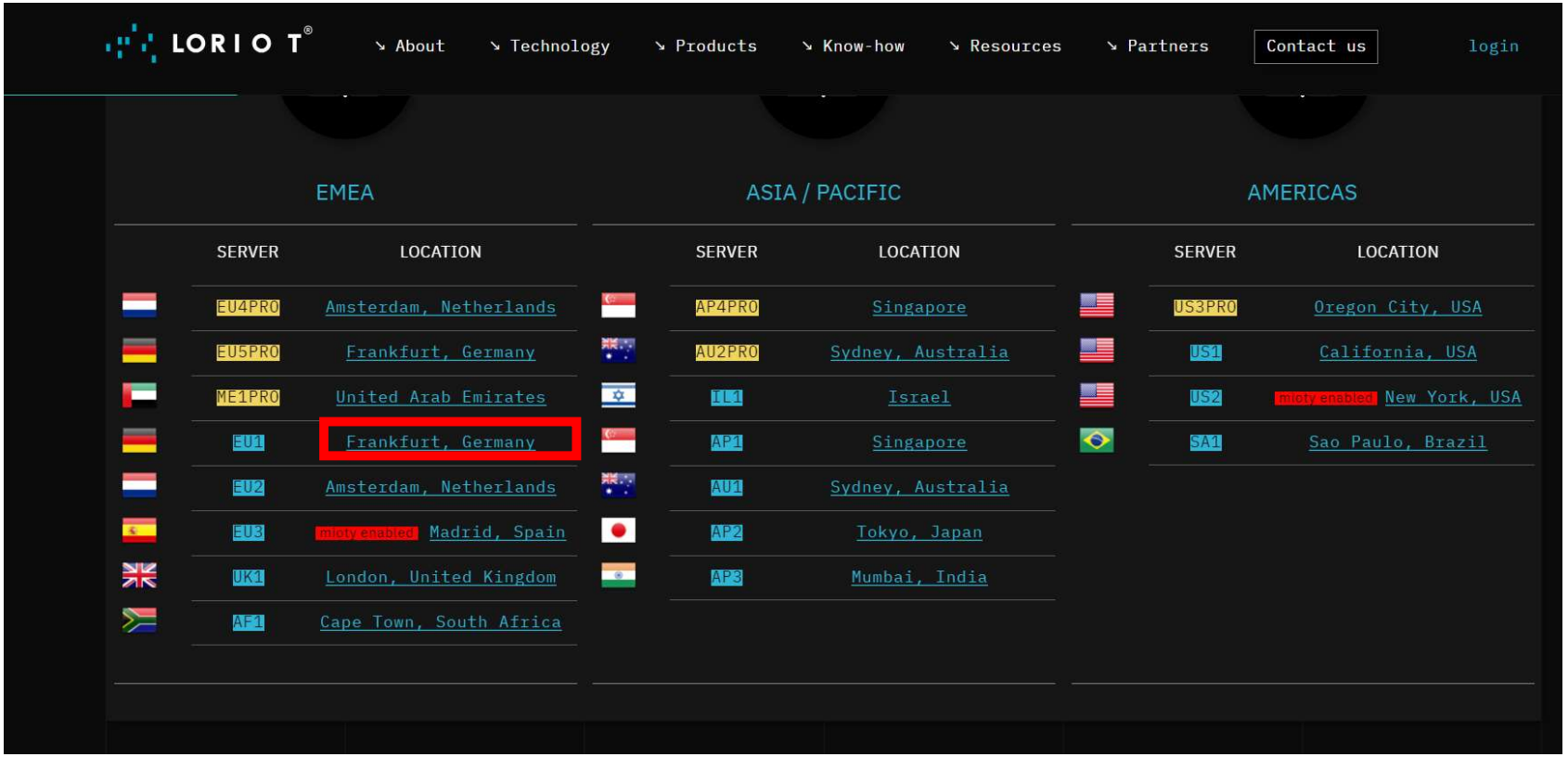
  AT+MAC=001122334455



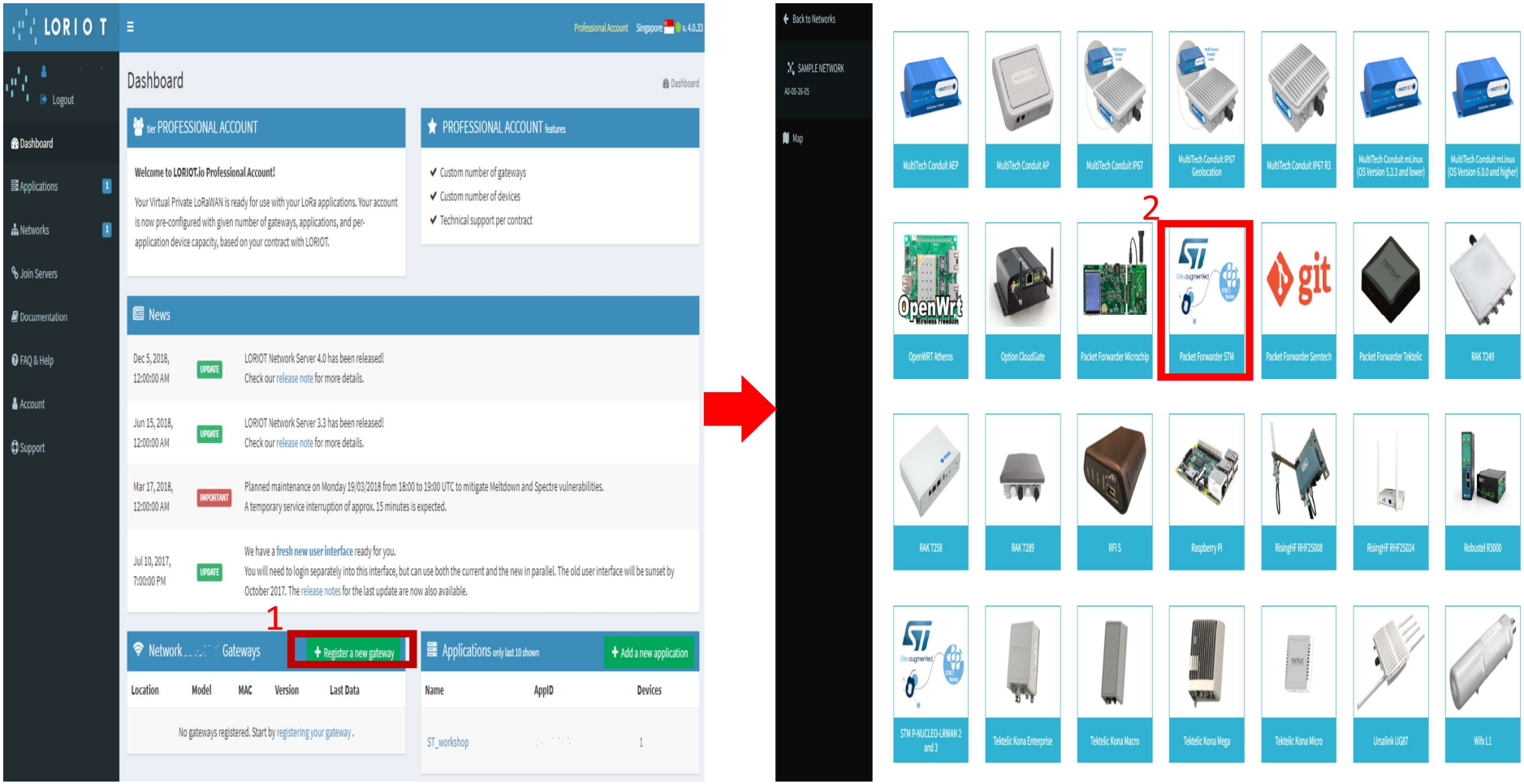
Loriot Login

1. Through Loriot website: [LORIOT - Hybrid Network Management System for Massive IoT]

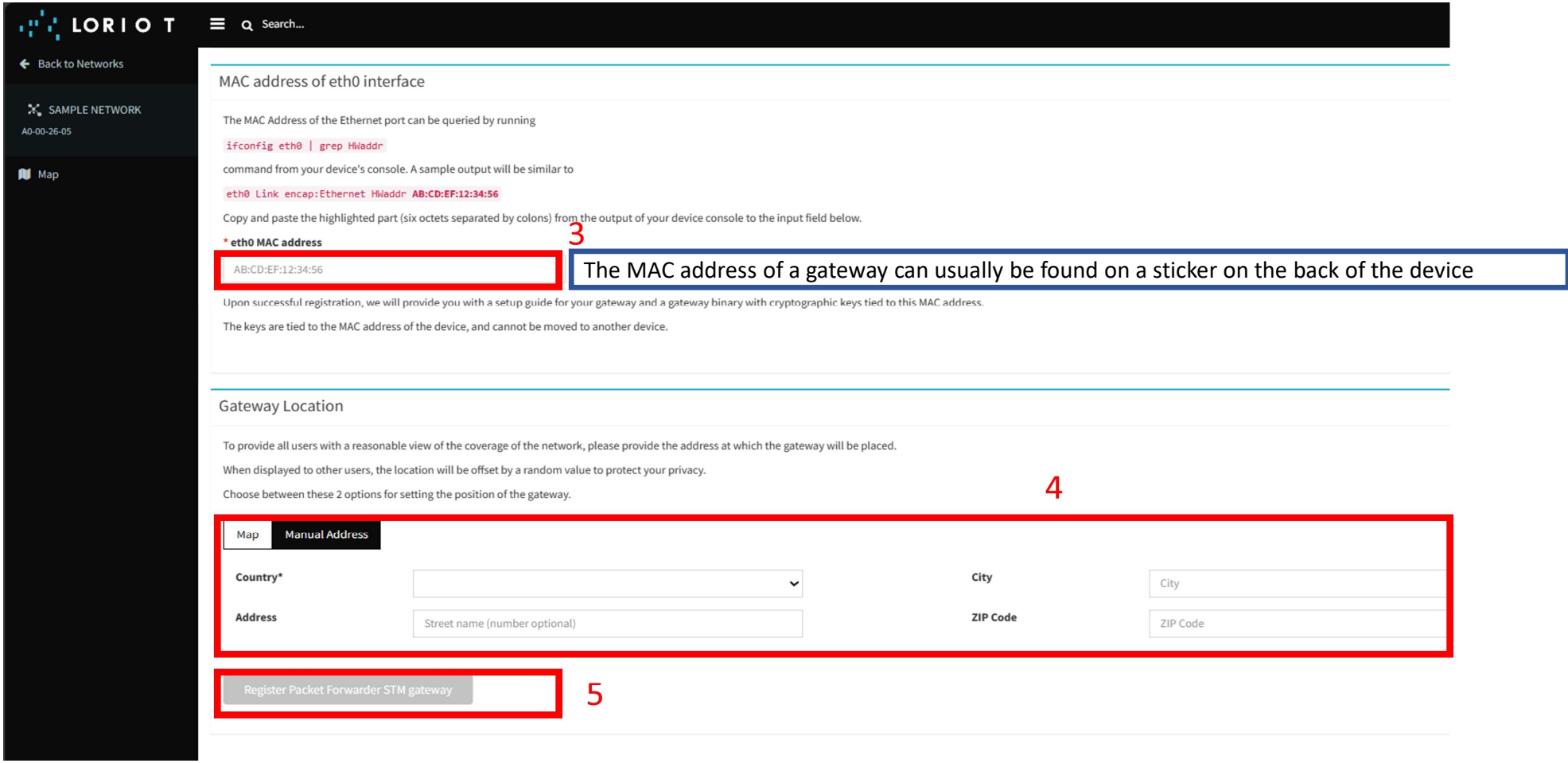
2. choose Frankfurt, Germany EU1 (server)



Gateway registration

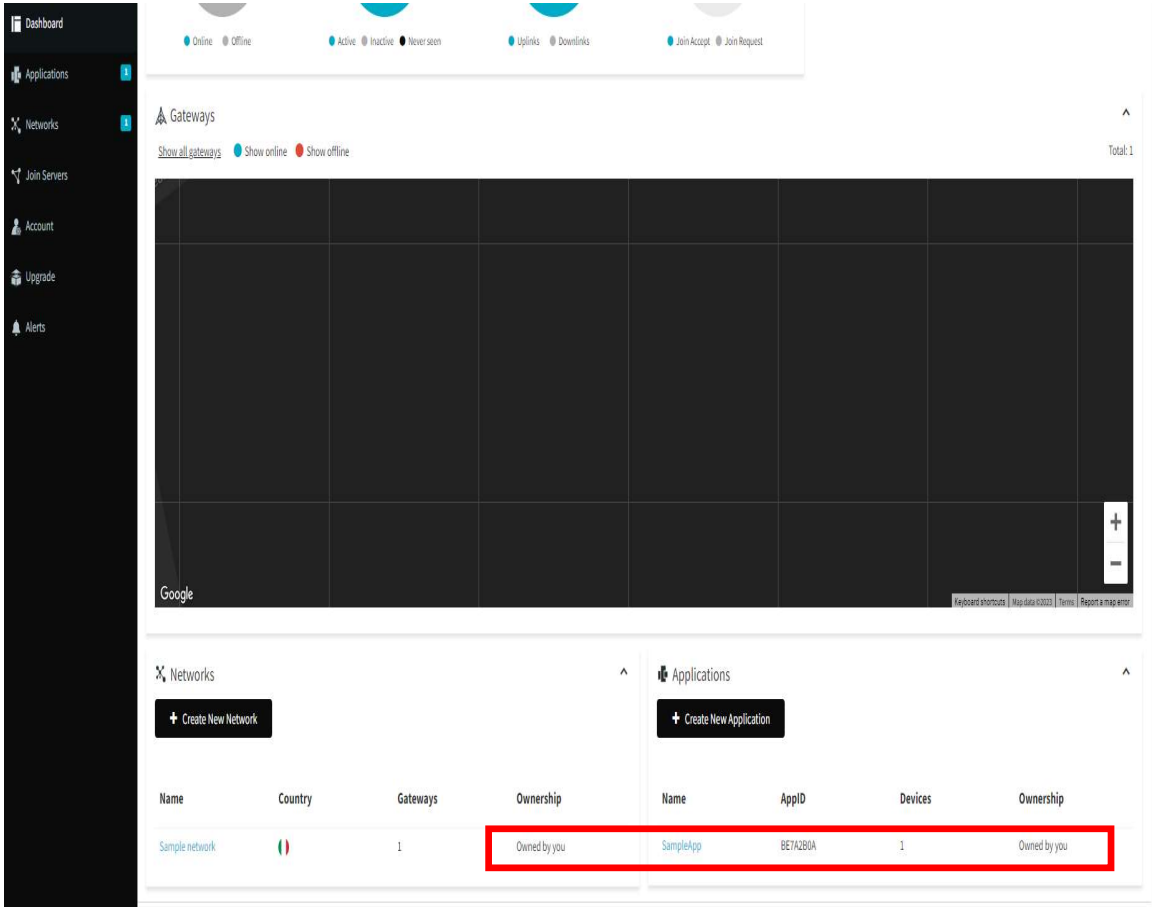


Gateway registration



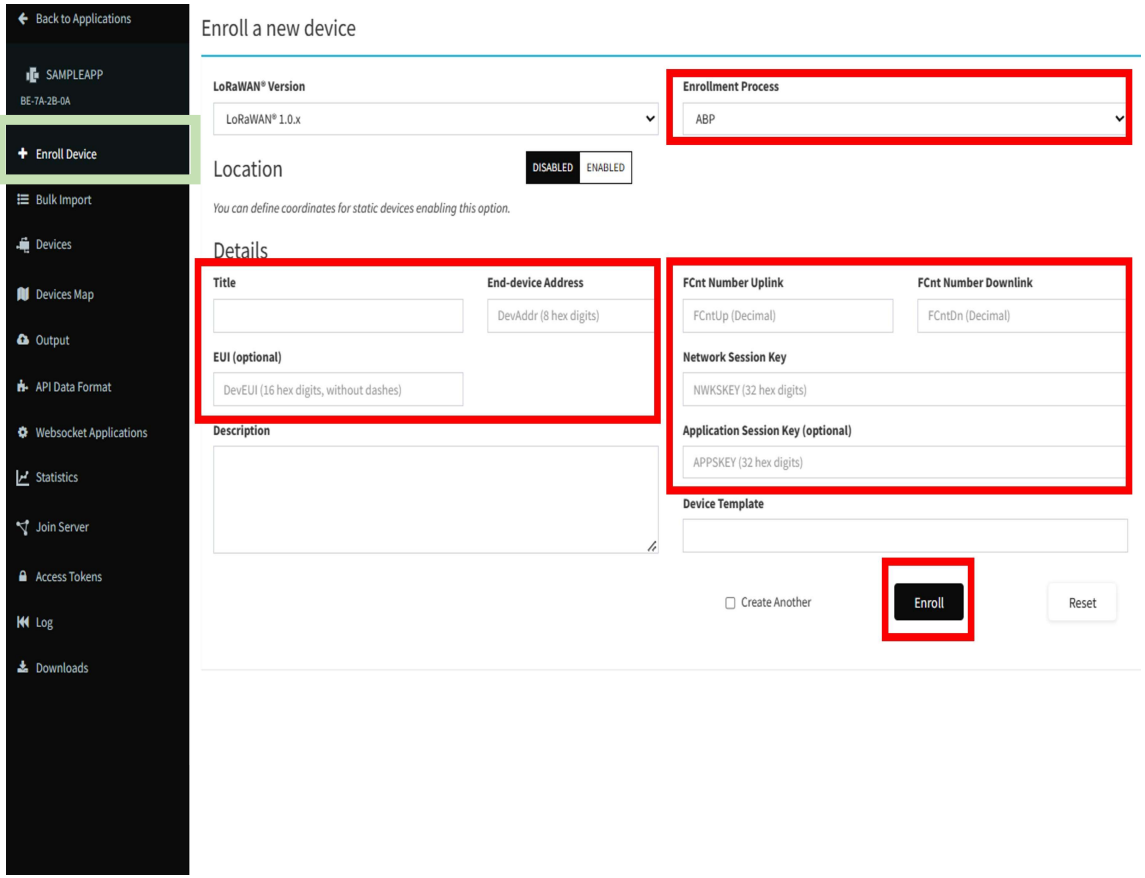
Device registration to Loriot network server

After completing the gateway registration process, a new application automatically created with a maximum limit of 10 devices that can be assigned to it you can find from Loriot dashboard.



Device registration to Loriot network server

- In the Application you can enroll device by providing device name, specific address of 8-bytes, EUI (optional), FCnt Uplink, FCnt Downlink, Network Session Key, Application Session Key.



Device details