

SENSECAP Connect M2 Multi-Platform Gateway to The Things Network Instructions

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SENSECAP Connect M2 Multi-Platform Gateway to The Things Network

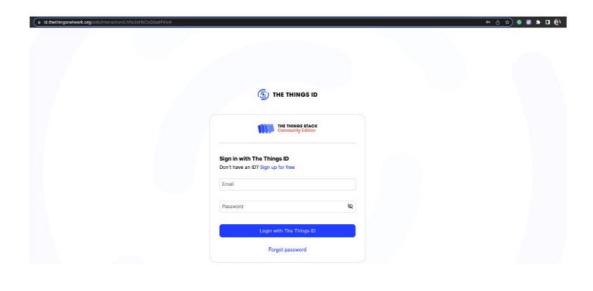


The main building blocks of the public community LoRaWAN® network are gateways. This tutorial will guide you connecting your M2 Multi-Platform Gateway to The Things Network.

Connecting via Packet Forwarders

TTN Configuration

Log into The Things Stack. If you don't have a TTN account, please register first.



Register the gateway



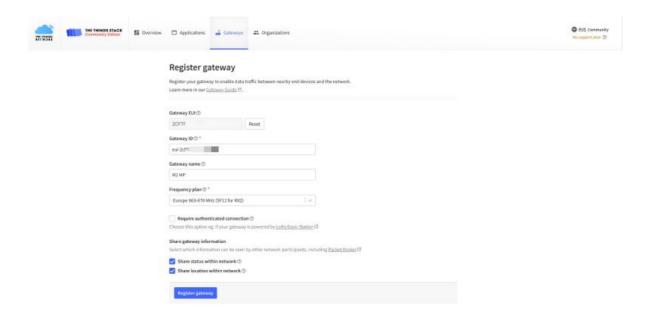
Gateway EUI: Gateway EUI can be found on the device label or Local Console

Gateway ID: A unique identifier for your gateway(the ID must contain only lowercase letters, numbers, and

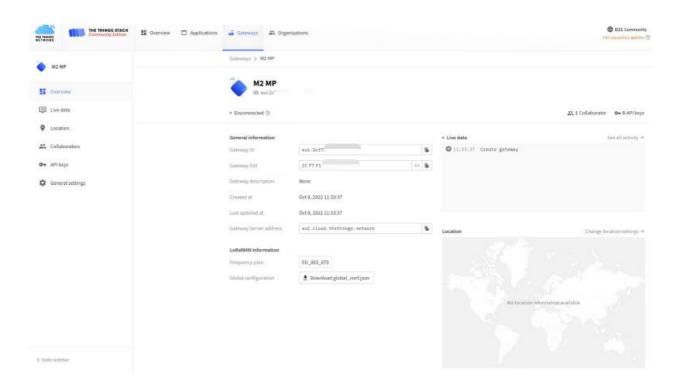
dashes)

Gateway name: A name of your gateway

Frequency plan: Select the corresponding frequency according to your gateway version



You can check the Gateway in the overview after successful registration.

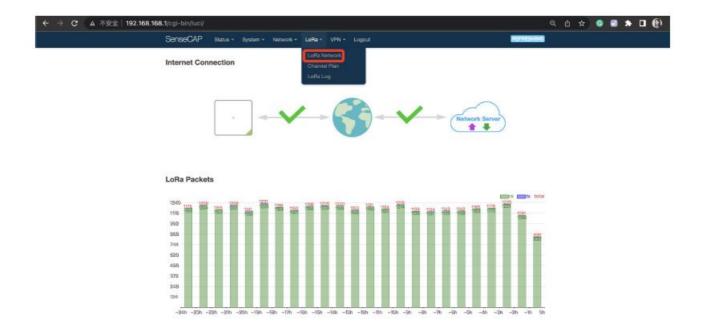


Gateway Configuration

Configure the gateway via the Web UI, please check the Quick Start to log into Local Console first.

Step 1: LoRa Network Settings

Navigate to LoRa > LoRa Network



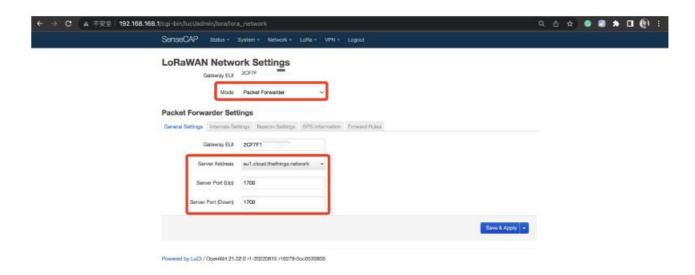
Mode: Packet Forward

Packet Forwarder Settings:

Gateway EUI: It will automatically get the EUI of the connected gateway **Server Address:** The link to The Things Network server(eg: For Europe is eu1.cloud.thethings.network)

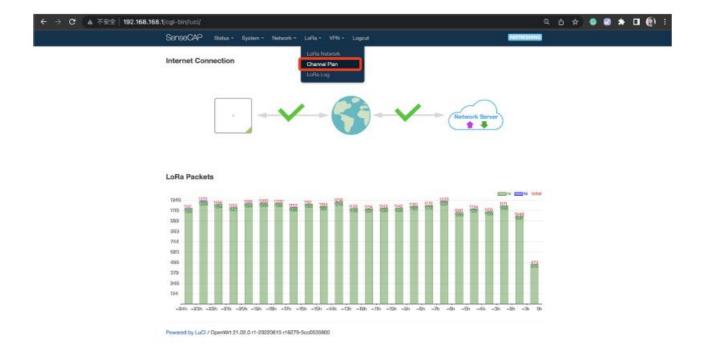
Server Port(Up/Down): 1700

Other settings can be left as default, or can be changed to suit your requirements.

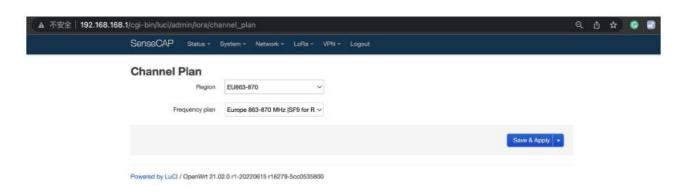


Click Save&Apply to apply your settings.

Step 2: Channel Plan Settings Navigate to LoRa > Channel Plan



Select the Region and Frequency plan according to the actual choice.



After setting, click Save&Apply

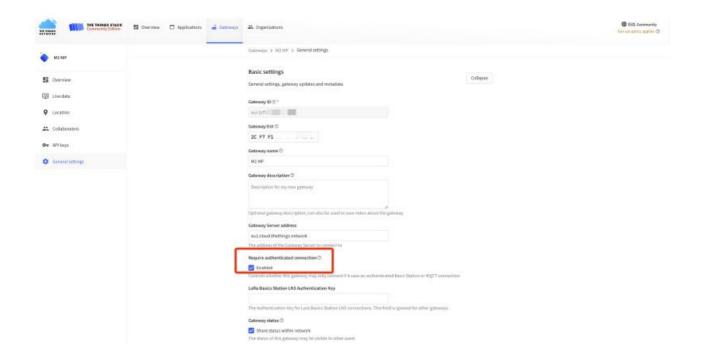
Connecting via Basic Station

TTN Configuration

Please refer to 1.1 for adding a gateway

Step 1: Enable Require authenticated connection

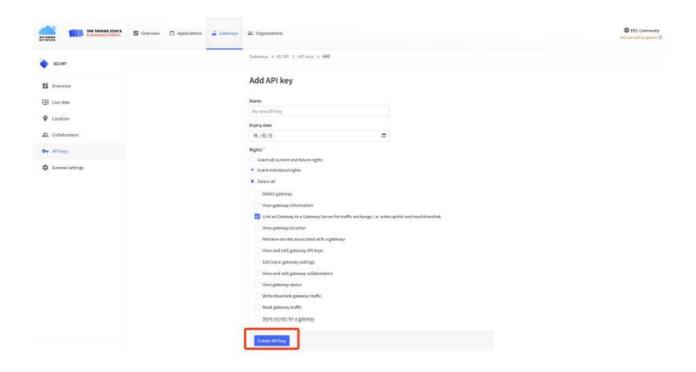
This will only allow a gateway to connect if it uses a TLS enabled Basic Station or MQTT connection. It will not allow connections from UDP packet forwarders.



Step 2: Create an API key Navigate to API keys, click Add API key



Choose Grant individual rights > Link as Gateway to a Gateway Server for traffic exchange, i.e. write uplink and read downlink



Gateway Configuration

Mode: Basics Station

Basic Station Settings:

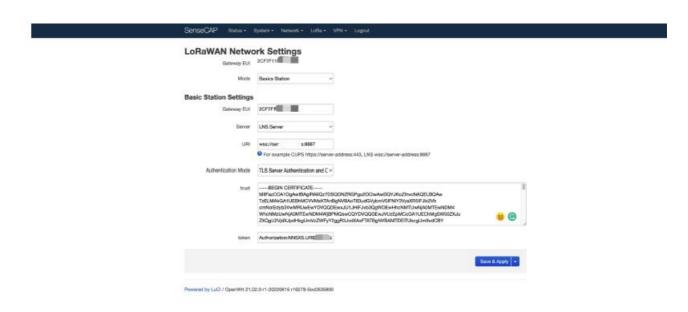
Gateway EUI: It will automatically get the EUI of the connected gateway

Server: LNS Server

URL: The link to The Things Network server(eg: For Europe is eu1.cloud.thethings.network) Port:8887

Authentication Mode: TLS server authentication and Client token

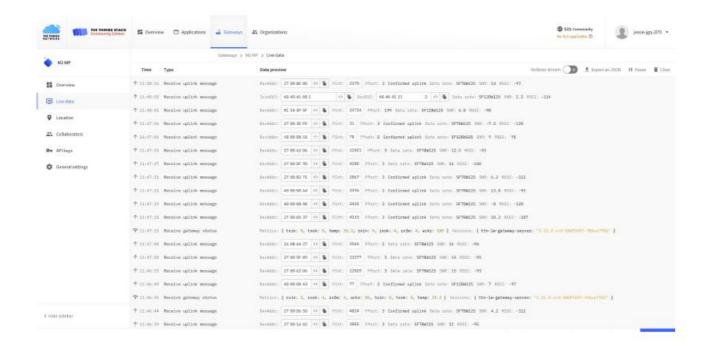
trust: Select the certificate you need and download it, recommend Let's Encrypt ISRG Root X1 Trust Copy the data content of the certificate file (the certificate can be opened in text form) token: Authorization: Your_API_Key Other settings can be left as default, or can be changed to suit your requirements.



Check the Gateway Status

After the settings are completed, we can view the live data of your gateway.

You can see that your gateway is connected to TTN now.



Documents / Resources



<u>SENSECAP Connect M2 Multi-Platform Gateway to The Things Network</u> [pdf] Instructions Connect M2 Multi-Platform Gateway to The Things Network, M2 Multi-Platform Gateway, The Things Network

Manuals+,