Chirp Wireless

[Chirp Wireless](#) is a leading global wireless network provider that offers reliable and extensive IoT connectivity solutions, both outdoors and indoors. Chirp's main objective is to simplify IoT deployments for its clients. By providing multiple connectivity options and offering White Label business-specific modules, Chirp eliminates the need for multiple networks, platforms, and billing systems. Chirp offers its own visualization platform, empowering clients to effortlessly implement IoT devices and visualize data with a simple click.

In this guide, you will learn how to connect a WisGate Edge gateway to the LNS solution provided by Chirp Wireless.

Adding the Gateway

1. Log in to your account at https://app.chirpwireless.io. If you don't have an account, create one.
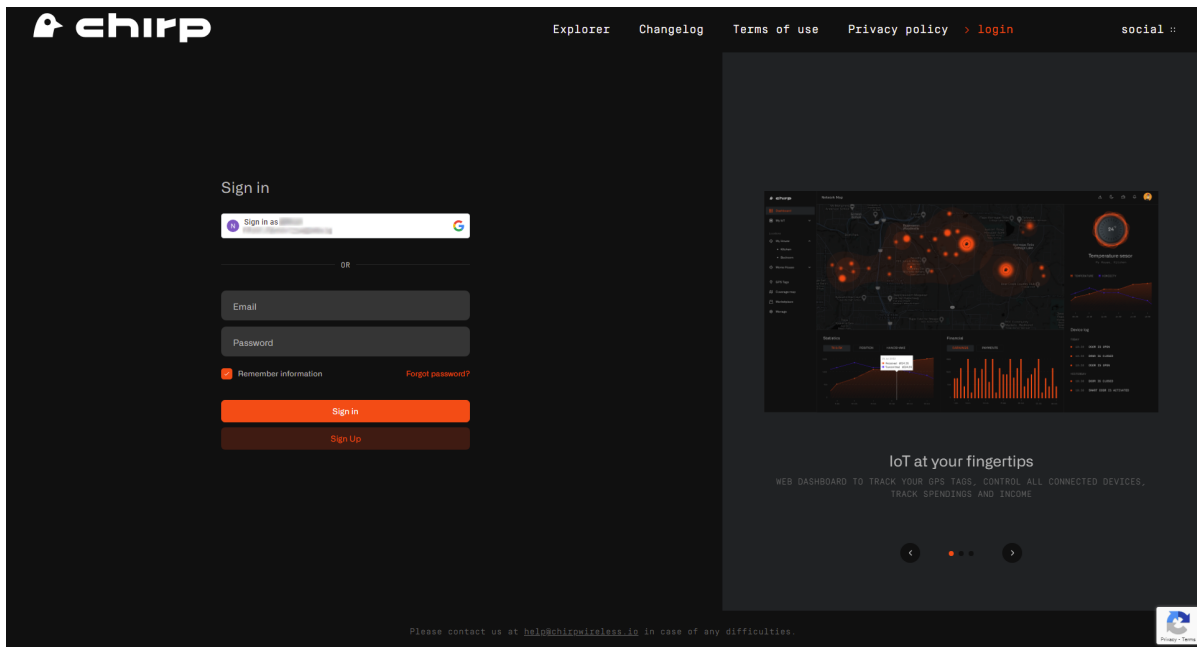

Figure 1: Chirp's login page

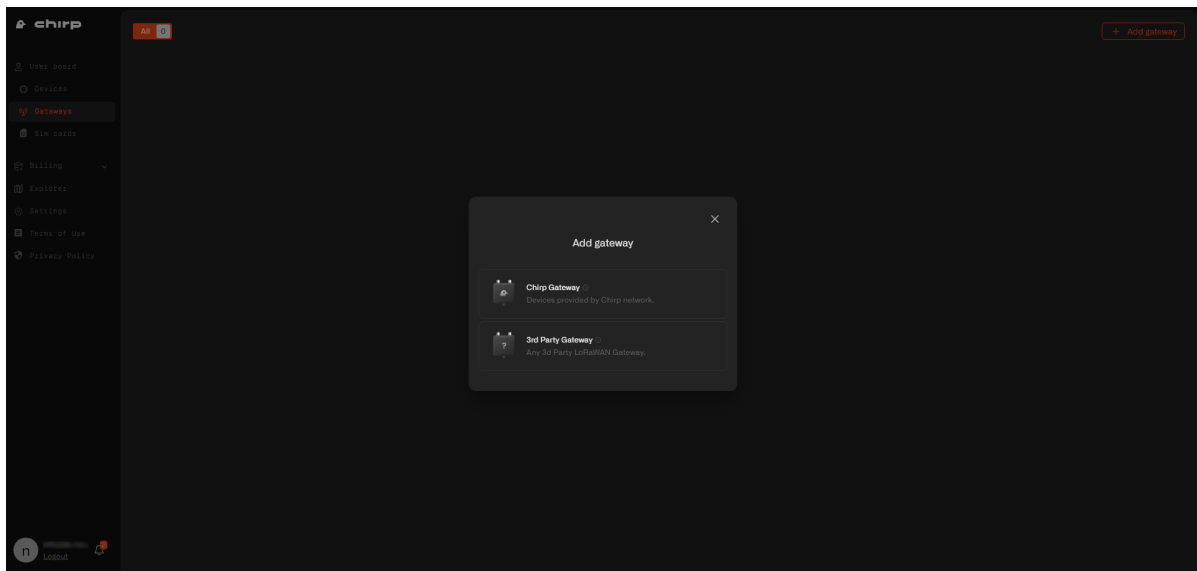2. Once logged, navigate to **Gateways** (left menu) > **+Add gateway** (upper right corner) > **3rd Party Gateway**.

3. Fill in the needed data and click **Next**.

- **Name** - Enter a name for the gateway that will help you identify it easily.

- **Region** – This is the LoRaWAN region of the gateway. For this example, we will be using the EU868.

- **Gateway EUI** – This is the EUI of the gateway. You can find it either on a sticker at the back of the device or in the Web UI > LoRa Network > Network Settings.
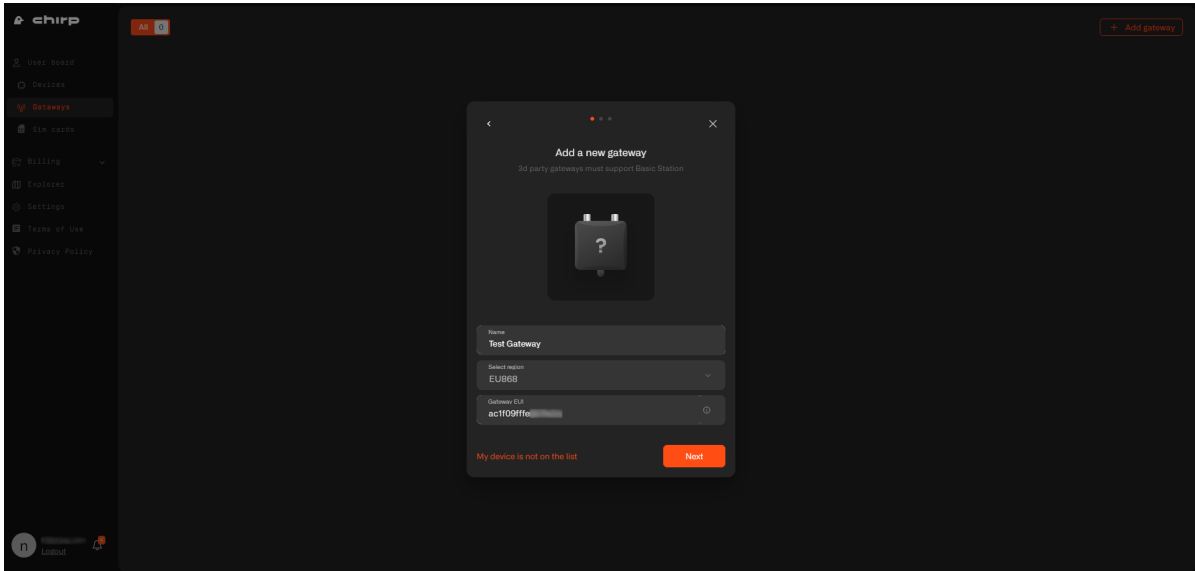

Figure 3: Gateway information

4. After confirmation, download the certs.zip containing the needed certificates and copy the LNS address to the clipboard. Click **Continue**.
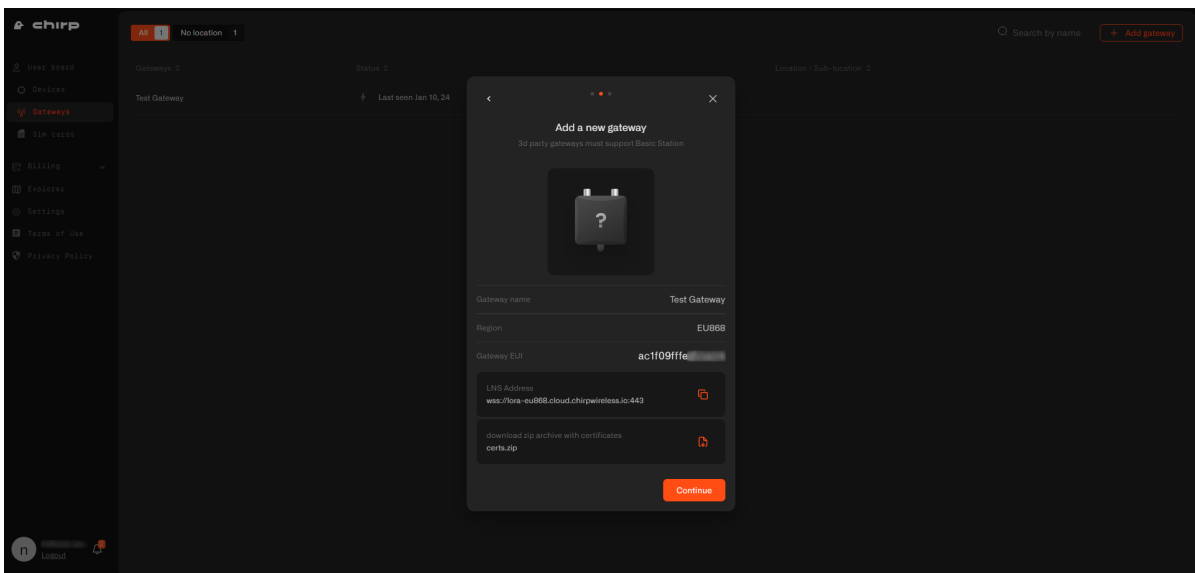

Figure 4: Certificates and address generation

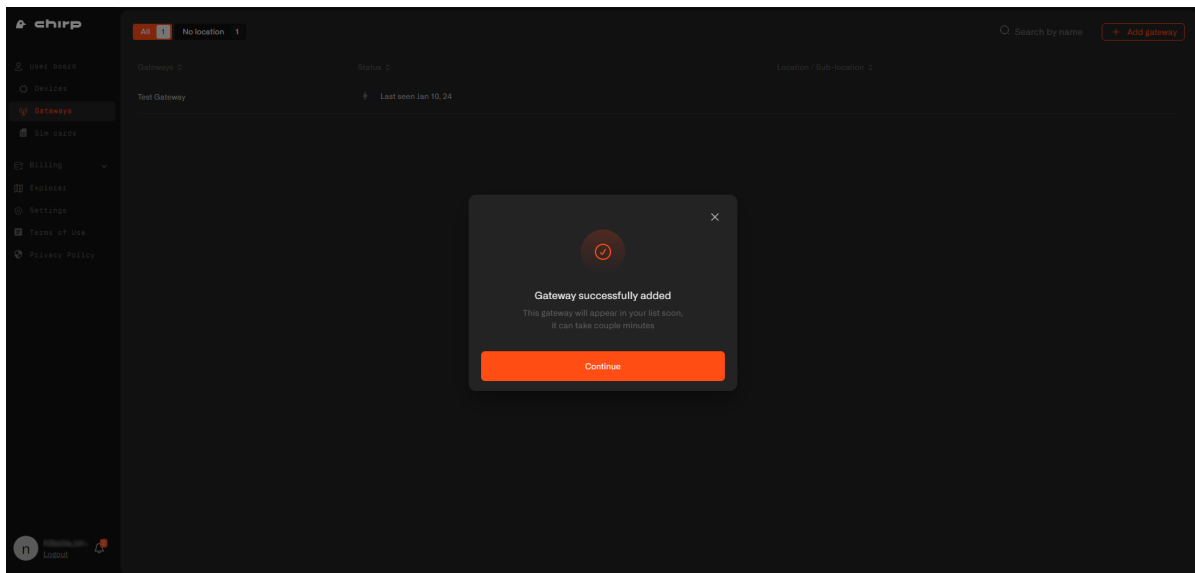5. Now, your gateway is successfully added to the Chirp platform. Click **Continue** to view your gateway list.

Figure 5: Gateway successfully added

> 📝 **NOTE**
>
> If you didn't save the certificates or LNS address, please, navigate to the gateway's Settings tab.
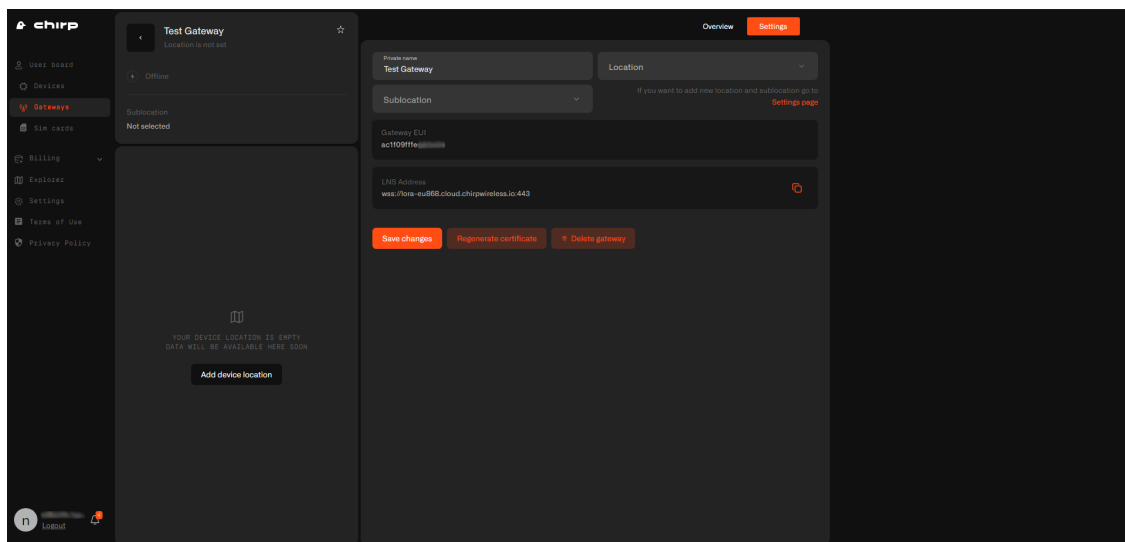

Figure 6: Gateway settings

Configuring the Gateway

1. To configure the gateway, access it via the Web UI. To learn how to do that, refer to the Quick Start Guide for each gateway.

2. Navigate to **LoRa Network** > **Network Settings** > **Mode** and select **Basics station**. Click **Switch Mode**.
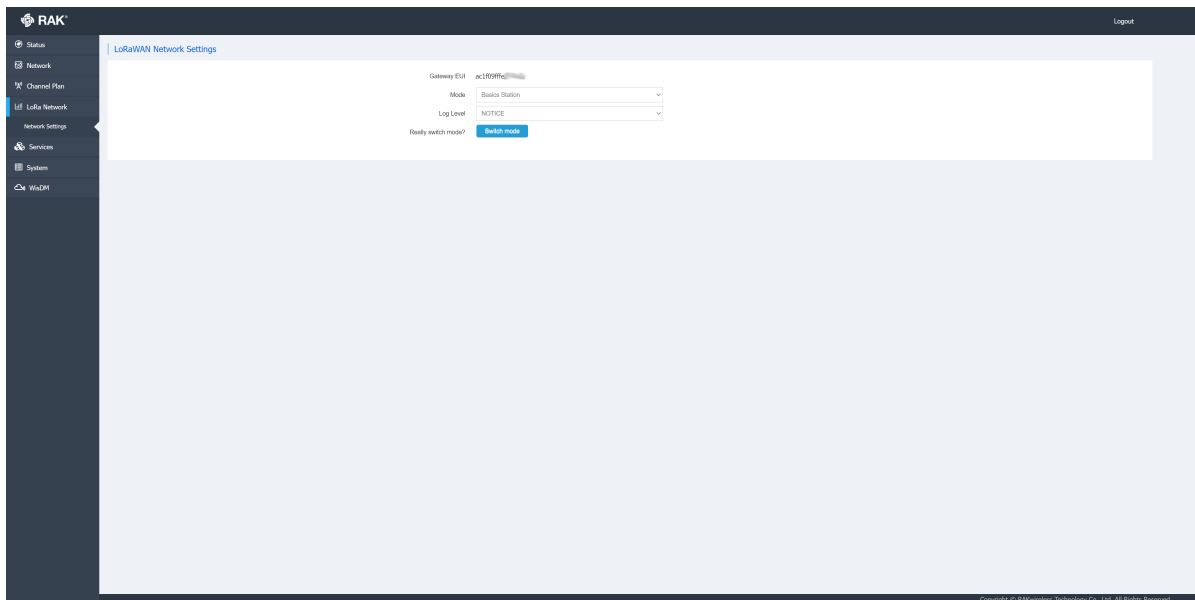
Figure 7: Gateway mode selection

3. In the **Basics Station Configuration** panel, configure the following parameters:

- **Server** – For server choose LNS Server.

- **URI** – Paste the LNS Address you copied from Chirp's dashboard.

- **Port** – Type in 443.

- **Authentication Mode** – Select TLS server authentication and Client Authentication.

3. Unzip the certificates.

Figure 8: Certificates

4. Manually copy-paste each certificate to the corresponding field in the Web UI and click **Save & Apply**.

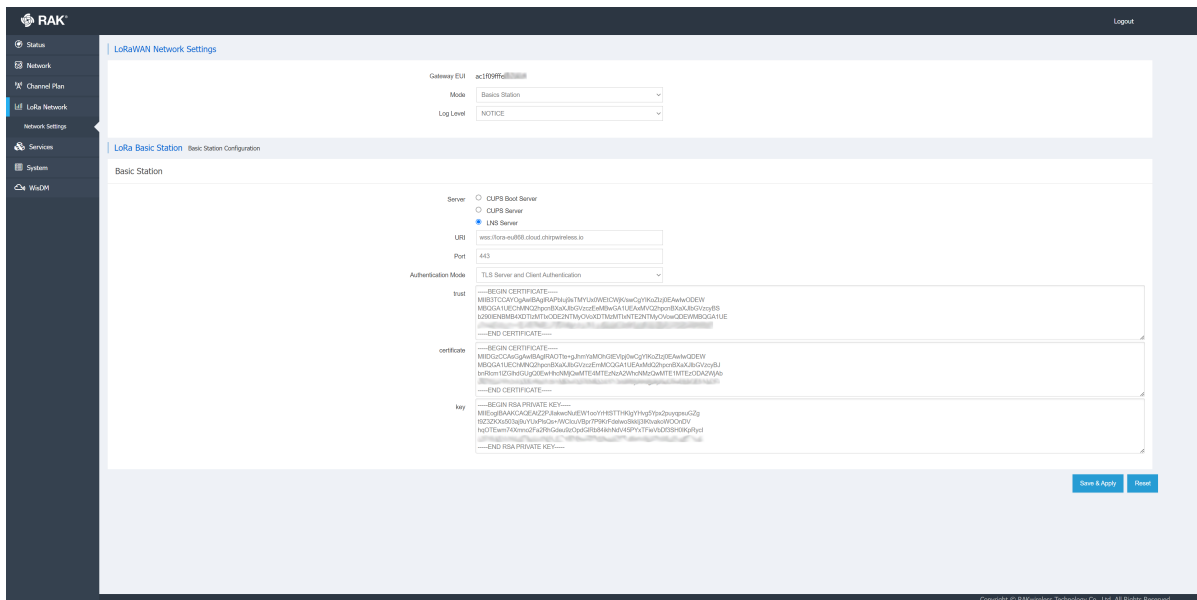- tc.trust > trust

- tc.crt > certificate

- tc.key > key

Figure 9: Uploading certificates

5. If set up correctly, the status of the gateway on the Chirp's dashboard will show as online. It may take a couple of minutes.
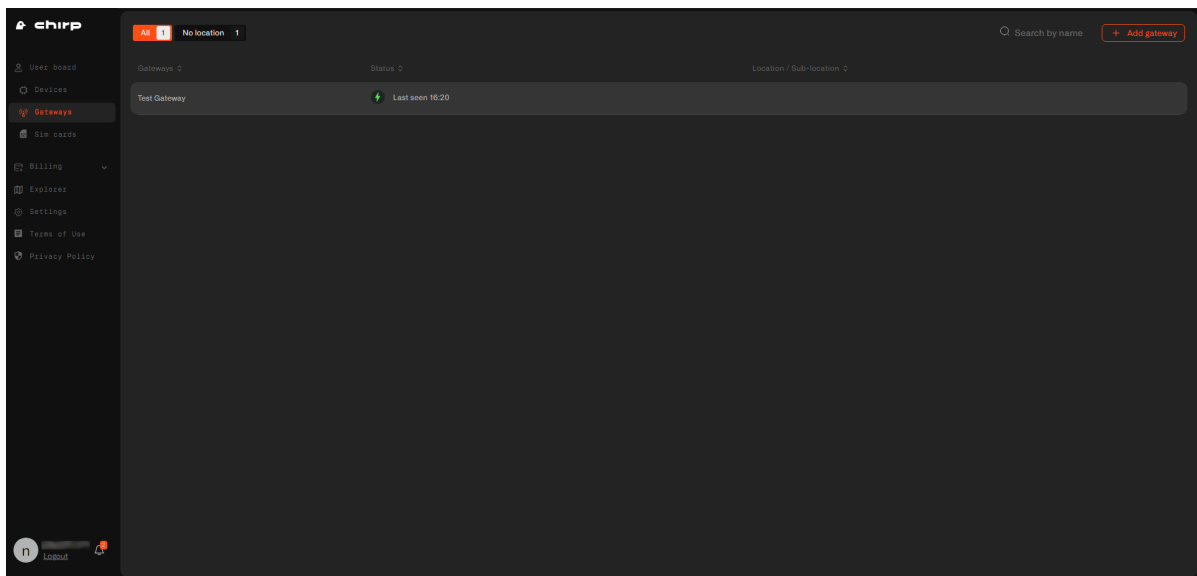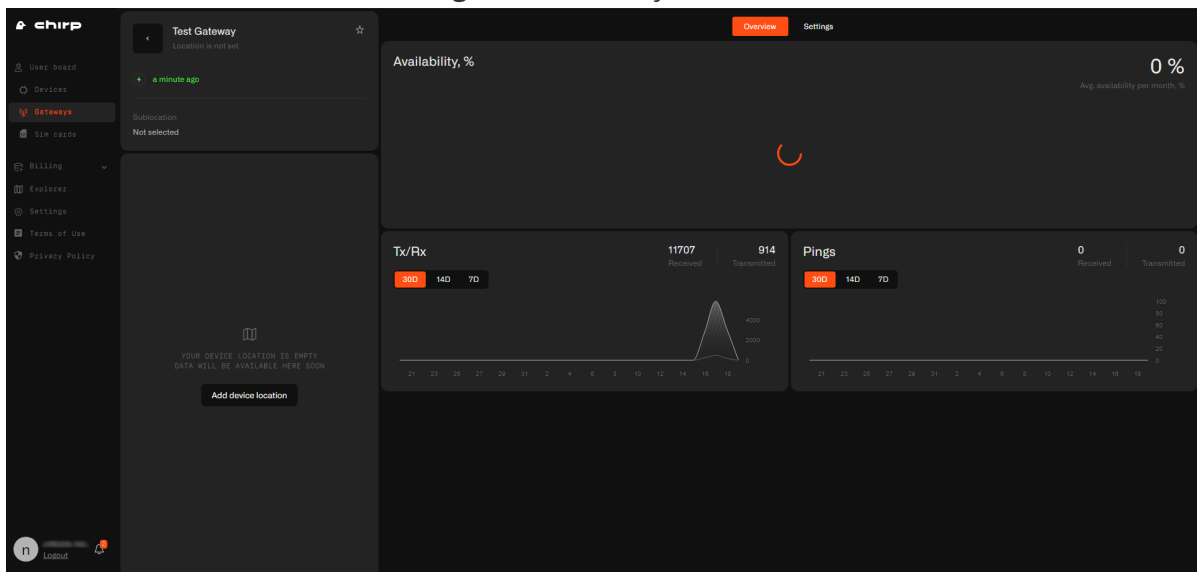

Figure 10: Gateway is online

Figure 11: Gateway overview