

Chirp Wireless

[Chirp Wireless](https://chirpwireless.io) 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 V2 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.

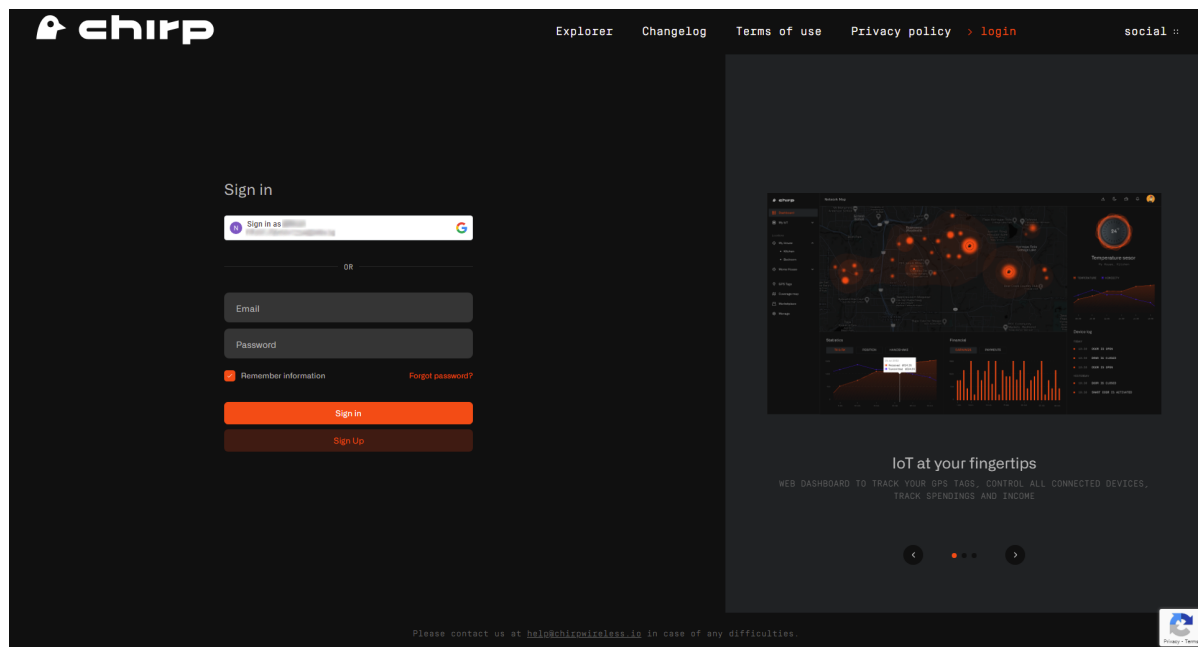


Figure 1: Chirp's login page

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

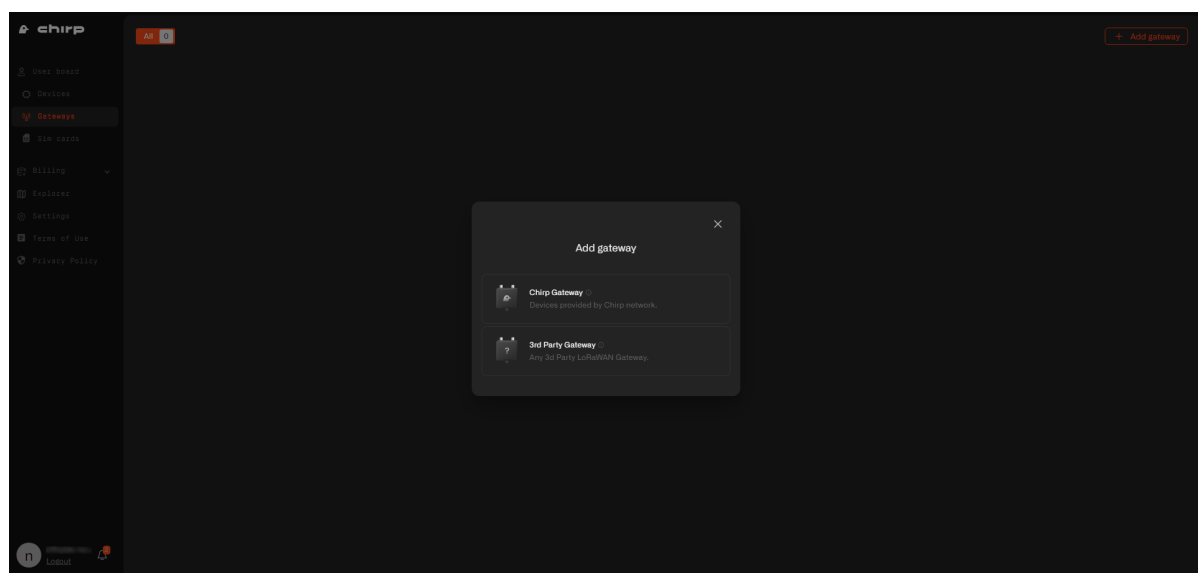


Figure 2: Adding a gateway

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 > Dashboard > Overview.

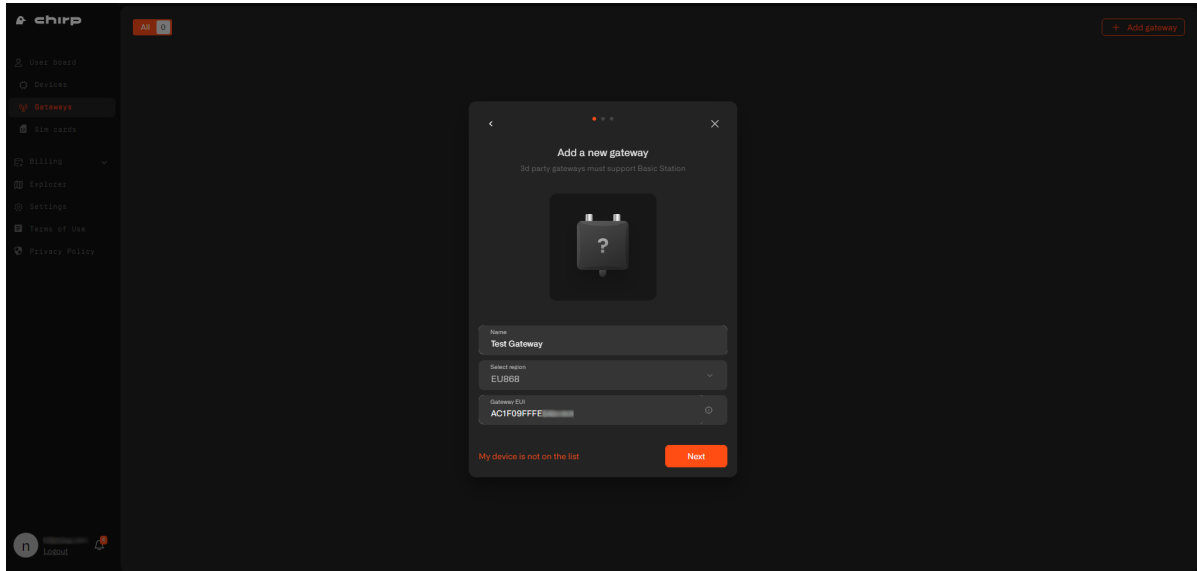


Figure 3: Gateway information

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

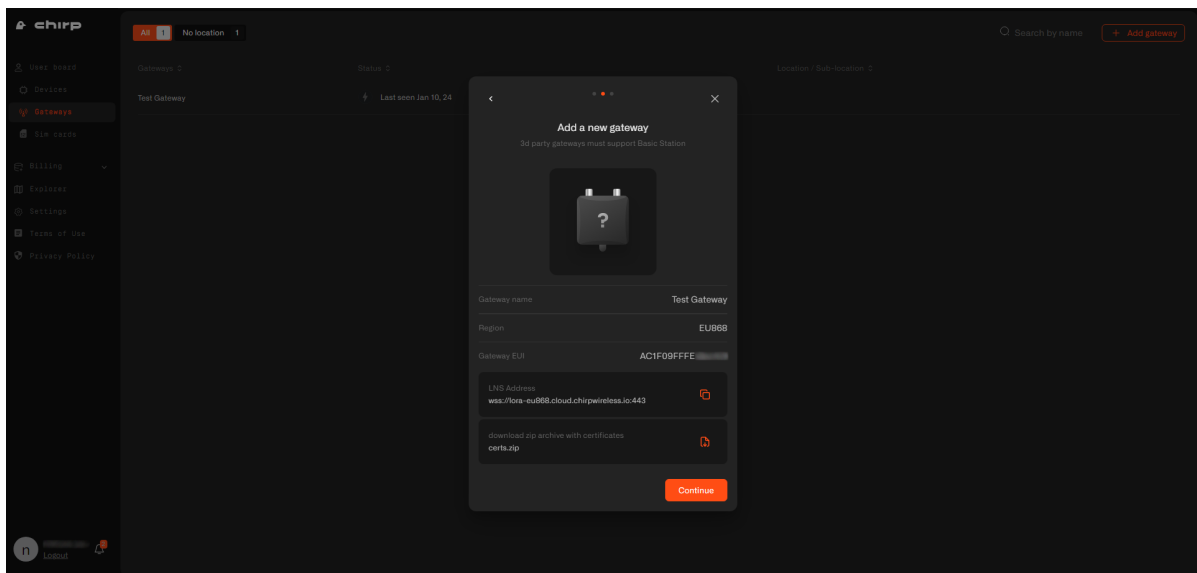


Figure 4: Certificates and address generation

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

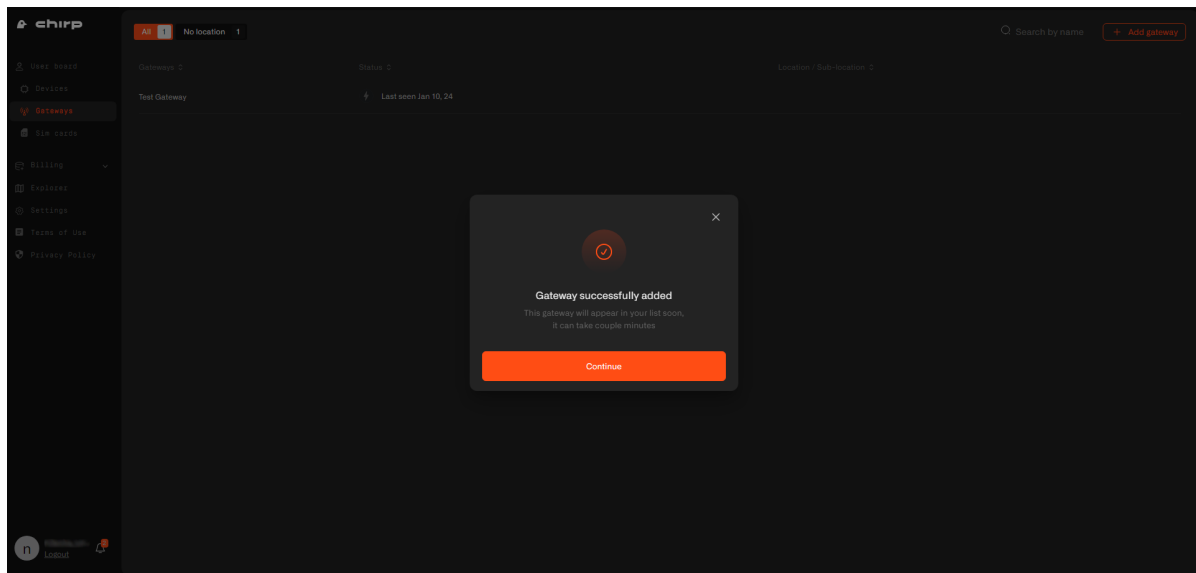


Figure 5: Gateway successfully added

NOTE

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

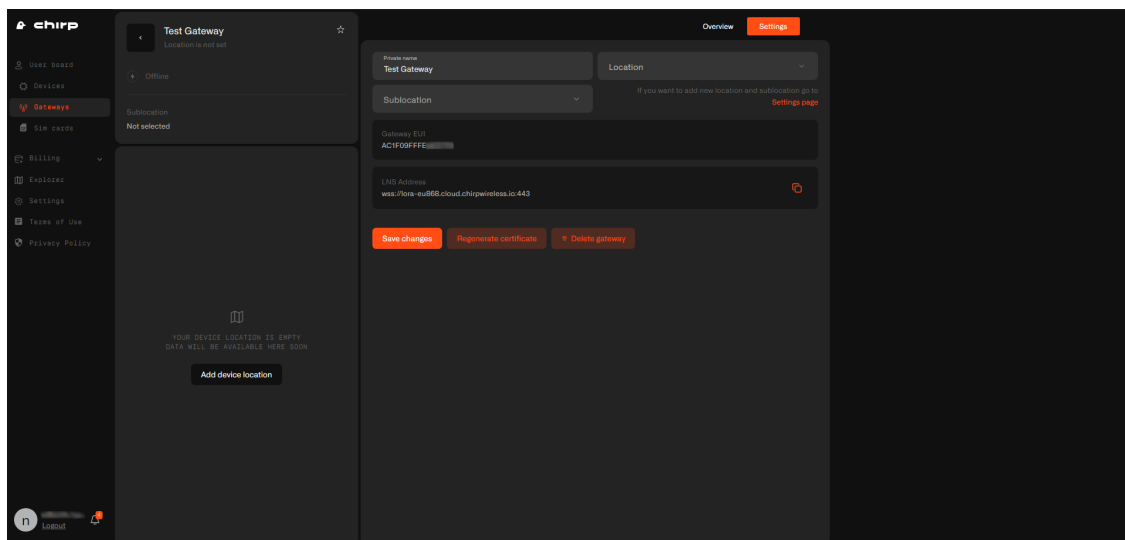


Figure 6: Gateway settings

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 > Configuration > Work mode** and select **Basics station**.
 - **Server URL** - Put the LNS Address you copied from Chirp's dashboard.
 - **Server Port** - Type in 443.
 - **Authentication Mode** - Select TLS Server & Client Authentication.

RAK7289V2_2359

Configuration

Work mode

- ☐ Packet forwarder
- ☒ Basics station
- ☐ Built-in network server

Log Level

Log Level

DEBUG

Basics station server setup

Configure Basics Station server setup.

Basics Station Server Type

- ☐ CUPS-BOOT Server
- ☐ CUPS Server
- ☒ LNS Server

Server URL

wss://lora-eu868.cloud.chirpwireless.io

Server Port

443

Authentication Mode

TLS Server & Client Authentication

Trust (CA Certificate)

Upload a new certificate

Client certificate

Upload a new certificate

Client key

Upload a new certificate

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Save changes

Figure 7: Gateway configuration

3. Unzip the certificates.

Name	Date modified	Type	Size
certs.zip	1/18/2024 2:07 PM	WinRAR ZIP archive	3 KB
tc.crt	1/18/2024 2:08 PM	Security Certificate	2 KB
tc.key	1/18/2024 2:08 PM	KEY File	2 KB
tc.trust	1/18/2024 2:08 PM	TRUST File	1 KB

Figure 8: Certificates

4. Upload each certificate to the corresponding field in the Web UI and click **Save changes**.

- tc.trust > Trust (CA Certificate)
- tc.crt > Client certificate
- tc.key > Client key

WisGate

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tc.trust

Client certificate

tc.crt

Client key

tc.key

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Save changes

Figure 9: Uploading certificates

- 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.

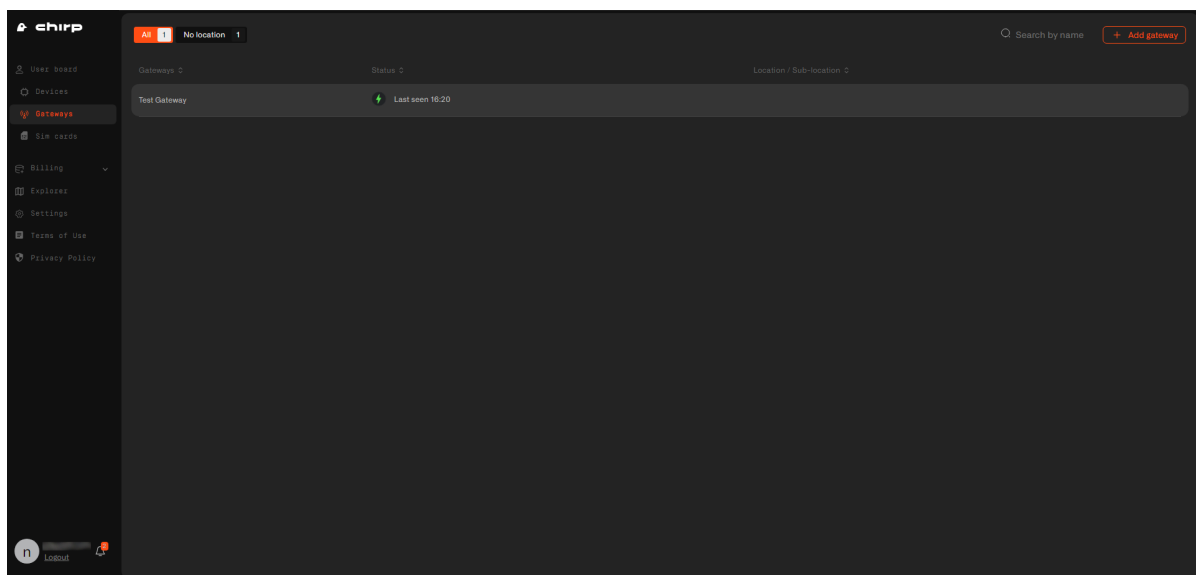


Figure 10: Gateway is online

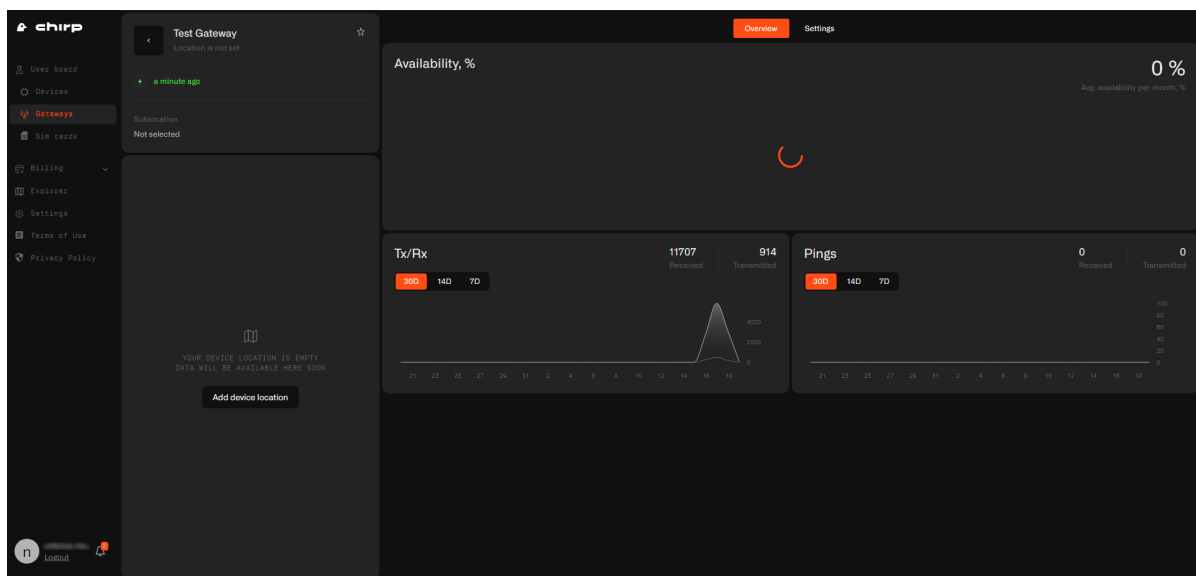


Figure 11: Gateway overview