



# **How to Integrate Milesight Gateways and Devices into the Netmore Group Platform**



Version Change Log			
Version	Revision Date	Revision Details	Revised By
V1.0	20250416	Initial	Lockon



# Preface

Netmore Group, headquartered in Stockholm, Sweden, is a global IoT network operator founded in 2010, focusing on building and operating low-power wide-area network (LPWAN) infrastructure based on LoRaWAN® technology. The company is dedicated to providing highly reliable and scalable connectivity solutions to utilities, real estate, industrial, and enterprise clients, driving digital transformation and sustainability.

Netmore offers various service models, including public and private LoRaWAN network deployment, Platform as a Service (PaaS), and seamless integration with major cloud platforms such as Microsoft Azure IoT Hub and AWS IoT Core. Its network architecture adopts a star topology, supporting bidirectional communication, end-to-end encryption, and multi-tenant management to ensure data security and system stability. Additionally, the Netmore LoRaWAN portal provides centralized management for gateways and devices, supporting automatic failover and real-time monitoring to ensure high network availability and performance.

This guide mainly demonstrates how to connect a UG65 gateway to the Netmore platform and add an AM103 device (note: AM103 is used here as an example; readers can replace it with their own devices as needed).

## 1. Prerequisites

- **Gateway model:** UG65 (UG56 and UG67 are also supported)
- **Sensor model:** AM103
- **Frequency band used in this guide:** EU868

**Note:** The Netmore platform supports all LoRaWAN frequency bands (e.g., EU868, US915, AS923, etc.). Your account may be initially provisioned with EU868, but other bands can be enabled upon request.

## 2. Applying for a Platform Account

First, visit [Building the leading Global LoRaWAN Network | Netmore Group](#)



03/09/2024 Yorkshire Water Selects Netmore to Exchange 1.3 Million Meters in Tender for One of Europe's Largest LoRaWAN Water Metering Projects

Countries Netmore Market

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## Building Low Power Wide Area Network Infrastructure Globally

Accelerate innovation and support resource conservation with the fastest growing global IoT network

Contact us



### Global Coverage with a Local Focus

Click "**Contact us**" on the page and fill in the required information:

03/09/2024 Yorkshire Water Selects Netmore to Exchange 1.3 Million Meters in Tender for One of Europe's Largest LoRaWAN Water Metering Projects

Countries Netmore Market

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## Contact Us

We are ready to lead you into the future of IoT & digitalization

Contact Information

First Name\* Last Name\*

Company name\* Company Website\*

Country\*

Contact Email\*

Contact number\*

Message\*

Netmore is committed to protecting and respecting your privacy, and we'll only use your personal information to

After submitting the form, the website will create an account based on your request. Please monitor your email for confirmation and login credentials.

## 3. First Login

Visit: <https://portal.blink.services/login> and fill in your account and password, then click "**LOGIN**":



Normally, the platform will automatically create default **Network Provider** and **Service Provider** profiles for your account, as shown below:



## Network Provider Info :

The screenshot shows the 'netmore LoRaWAN' interface for a 'Network Provider - Milesight'. The 'Information' section displays the following details:

Name	Milesight Q
Code	MILESIQHT
Active	Yes
Created	2024/02/24 20:23:29
Created By	Martin Flenhagen (martin.flenhagen@netmoregroup.com)
Organization	Milesight ↗
Network	Enterprise PaaS (EU)
Valid Frequency Plans	EU868-1 (8ch) (867.1-868.5)
Default Network Server	LNS-EU-N1
Users	Nicholas Cao (nicholas.cao@milesight.com), Lockon Wen (lockon.wen@milesight.com)
Distribute Admin - Users	No Value

The 'Notification e-mail' section has a placeholder 'Enter e-mail address'. The 'Contacts' section shows 'No Contacts'. The 'Description' section contains the word 'Missing'.

## Service Provider Info :

The screenshot shows the 'netmore LoRaWAN' interface for a 'Service Provider - Milesight'. The 'Information' section displays the following details:

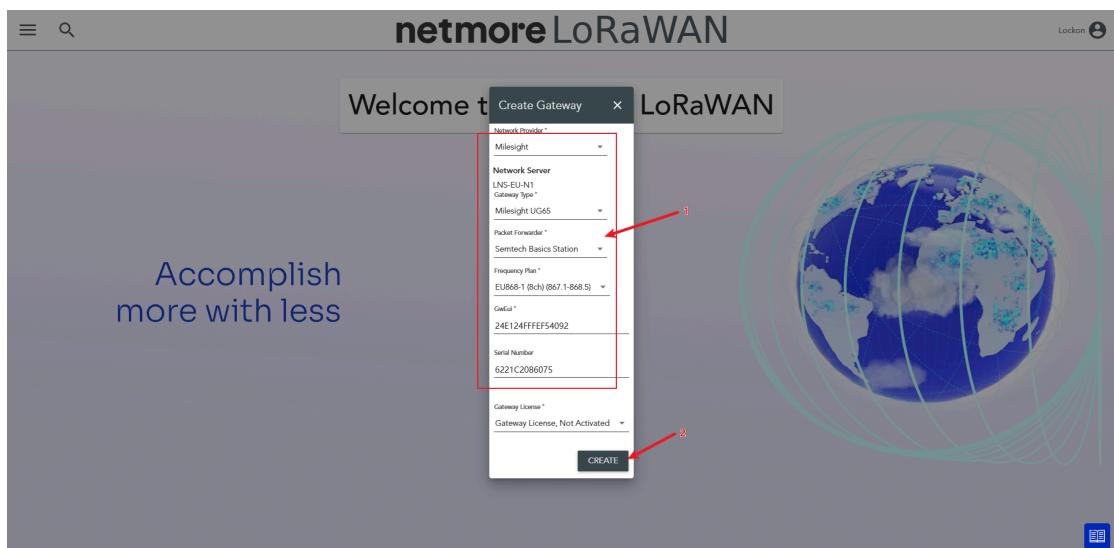
Name	Milesight Q
Code	MILESIQHT
Active	Yes
Created	2024/02/24 20:23:48
External Reference	Missing
Created By	Martin Flenhagen (martin.flenhagen@netmoregroup.com)
Organization	Milesight ↗
Network	Enterprise PaaS (EU)
Default Channel Plan	Netmore Default
Available Products	Netmore Default
Default Product	Netmore Default
Default Network Server	LNS-EU-N1
Invoice	No
↳ Billing Method	Provisioned ↗
Users	Nicholas Cao (nicholas.cao@milesight.com), Lockon Wen (lockon.wen@milesight.com)
Sensor Admin - Users	Nicholas Cao (nicholas.cao@milesight.com), Lockon Wen (lockon.wen@milesight.com)
Distribute Admin - Users	Nicholas Cao (nicholas.cao@milesight.com)
Customers	None

The 'Subscription Distributors' section shows 'No distributors'. The 'Subscription Buyers' section shows 'No Buyers'. The 'Description' section contains the word 'Saving...'. A blue save icon is visible in the bottom right corner.

At this point, your account is ready to use, and the initial check is complete.

## 4. Creating a Gateway

Follow the interface instructions as shown below:



#### Notes:

- All frequency bands are supported
- In this guide, we use the Basic Station connection method.
- Fill in other parameters based on your actual situation.

That completes the gateway creation process on the platform. Next, we will access the gateway's web management interface to configure relevant parameters.

## 5. Gateway Configuration

### 5.1. Disable the Built-in Network Server

Log into the gateway's management interface and disable the built-in LNS (LoRa Network Server) feature as shown:

Milesight

- Status
- Packet Forwarder** 1
- Network Server
- Protocol Integration
- Network
- System
- Maintenance
- APP

General Radios Advanced Custom Traffic

**General Setting**

Gateway EUI	2AE124FFFEF54092
Gateway ID	2AE124FFFEF54092
Frequency-Sync	2
Data Retransmission	<input type="checkbox"/>

**Multi-Destination**

ID	Enable	Type	Server Address	Connect Status	Operation
0	<input checked="" type="checkbox"/>	Embedded NS	localhost	Disconnected	<span style="color: red;">3</span> <span style="color: #007bff;">Edit</span> <span style="color: #007bff;">Delete</span> <span style="color: #007bff;">Add</span>
1	<input type="checkbox"/>				<span style="color: #007bff;">Edit</span> <span style="color: #007bff;">Delete</span> <span style="color: #007bff;">Add</span>
2	<input type="checkbox"/>				<span style="color: #007bff;">Edit</span> <span style="color: #007bff;">Delete</span> <span style="color: #007bff;">Add</span>

**Packet Filters**

Proprietary Message Filter

Filters by NetID  White List Edit

Filters by JoinEUI  White List Edit

Filters by DevEUI  White List Edit

Milesight

- Status
- Packet Forwarder
- Network Server
- Protocol Integration
- Network
- System
- Maintenance
- APP

General Radios Advanced Custom Traffic

**General Setting**

Gateway EUI	2AE124FFFEF54092
Gateway ID	2AE124FFFEF54092
Frequency-Sync	
Data Retransmission	<input type="checkbox"/>

**Multi-Destination**

ID	Enable	Type	Server Address	MQTT Port	Connect Status	Operation
0	<input type="checkbox"/>	Embedded NS	localhost	1883	Disconnected	<span style="color: #007bff;">Edit</span> <span style="color: #007bff;">Delete</span> <span style="color: #007bff;">Add</span>
1	<input type="checkbox"/>				Connected	<span style="color: #007bff;">Edit</span> <span style="color: #007bff;">Delete</span> <span style="color: #007bff;">Add</span>
2	<input type="checkbox"/>				Connected	<span style="color: #007bff;">Edit</span> <span style="color: #007bff;">Delete</span> <span style="color: #007bff;">Add</span>

**Packet Filters**

Proprietary Message Filter

Filters by NetID  White List Edit

Filters by JoinEUI  White List Edit

Filters by DevEUI  White List Edit

Enable  1.uncheck it.

Type  Embedded NS

Server Address  localhost

MQTT Port  1883

Save 2. Click to save.

## 5.2. Configure Packet Forwarding Parameters

Next, configure the packet forwarding address.

Refer to the [Netmore Group Portal Docs](#) to obtain key parameters, as shown below:

**netmore** Home Getting Started Base Stations API Reference Maps Reports Alerts Administration Search

**Semtech LoRa Basics Station**

Semtech Basics Station – Netmoregroup Verified Gateways  
Semtech Basics Station – Gateway Communication Ports

**Note**  
Base Station registration and Software installation is only required for devices that are new to the Netmoregroup Network. If Netmoregroup provided the Gateway, no further action is necessary.

**Semtech Basics Station – Netmoregroup Verified Gateways**  
Netmoregroup seamlessly supports Standard Semtech Basics Station integrations and will work with most Basics Stations equipped Base Stations even if it is not listed in the below table.  
The Semtech Basics Station is configured via multiple files or through a user interface depending on the Base Station manufacturer and/or the Base Station firmware version. For full details please read the [Generic Basics Station page](#).  
Below are the generic requirements to configure a Secured Basics Station to operate with the Netmoregroup LoRaWAN Network Server.

Key	Value	Location	Description
EUI or routefid	XXXX:XXXX:XXXX:XXXX	station.conf	Base Station EUI, provided by Netmoregroup upon completion of Base Station registration. Also called Manufacturer EUI.
LNS URI (secured)	wss://ns-gw.netmoregroup.com:6042	lc.urn	Note the port, if configuring through a UI you may need to set this separately. Requires TLS Certificate
TLS Certificate	Provided by Netmoregroup	lc.trust	This file is provided by Netmoregroup and is required to be used with the secured URL. Download the Server Certificate. MDS: 71db01c5d0e10acc39e5915cafa0aa1c

A common configuration checklist is listed below.  
Some steps listed may not be required for all Base Station vendors and models but the steps are listed roughly chronological order.

- Ensure the gateway is registered on the Netmoregroup network.
- Disable any packet forwarding software that may be already running.
- Ensure to select the [Semtech Basics Station](#) packet forwarder type during Netmoregroup Registration.
- Netmoregroup currently supports [TLS](#) connection method
  - cups mode options should not be utilized.
  - If given the choice to pick the [TLS](#) connection type, the [secured](#) version is recommended.
  - The URL can be entered in various forms, if configuring through a UI you may need to set the port separately. Some common examples for the secured variant are:
    - wss://ns-gw.netmoregroup.com:6042
    - URI: wss://ns-gw.netmoregroup.com:6042 Port: 6042
    - Connection type: Secured URI: ns-gw.netmoregroup.com Port: 6042
  - Using the [Secured](#) URI value requires a TLS certificate to be provided.

Input the **LNS address** and upload the downloaded **CA certificate** to the gateway as illustrated.

**Milesight**

Status Packet Forwarder Network Server Protocol Integration Network System Maintenance MQTT

General Radios Advanced

Packet Forwarder

Network Server

Protocol Integration

Network

System

Maintenance

MQTT

General Setting

Gateway EUI

Gateway ID

Frequency Sync

Data Retransmission

Multi Destination

ID

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Milesight

Status

Packet Forwarder

Network Server

Protocol Integration

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Maintenance

APP

General Radios Advanced Custom Traffic

General Setting

Gateway EUI	2AE124FFFEF54092
Gateway ID	2AE124FFFEF54092
Frequency/Sync	2
Data Retransmission	<input type="checkbox"/>

Multi-Destination

ID	Enable	Type	Server Address	Connect Status	Operation
0	Disabled	Embedded NS	localhost	Disconnected	
2	Enabled	Basics Station	-	Connected	

Packet Filters

Proprietary Message Filter

Filters by NetID White List

Filters by JoinEUI White List

Filters by DevEUI White List

## 6. Gateway PROVISION

Return to the Netmore interface and follow the steps shown:

Menu

- Netmore Support
- Netmore Market
- Netmore Coverage
- Network Provider
  - + Create Gateway
  - 🔍 Search Gateway
  - 🌐 Gateway Connectivity
  - ⌚ Coverage Map
  - 💰 Billing Reports
  - 💻 Network Providers
  - 🖨 Gateway Type Configs
- Service Provider
  - 🔍 Search Sensor
  - + Create Sensor
  - ⌚ Coverage Map
  - + Install Sensor
  - ⌚ Replace Sensor
  - 💻 Service Providers
  - 👤 Customers
- Administration
  - 👤 Account
  - 👤 Users

netmore LoRaWAN

Welcome to Netmore LoRaWAN

Accomplish more with less

netmore LoRaWAN

Search Gateway

Gateway Id	Alias	Serial Number	MAC	GwEui	Gateway Type	Network Provider	Status Notification	Category
Outdoor Antenna	Network Server	Packet Forwarder	Frequency Plan					
Connected	Status Primary	Status Secondary						
Street Name	Street Number	Postcode	City	Country				
Active	Yes	Installed	Provisioned					
Tags								
Enter new key								
<input type="button" value="CLEAR"/> <input style="background-color: #007bff; color: white; border-radius: 5px; padding: 5px; margin-right: 10px;" type="button" value="SEARCH"/>								

netmore LoRaWAN

Search Gateway

Gateway Id	Alias	Created	Serial Number	Active	Installed	Installation Changed	Provisioned	Provision Changed	Connected	Connected Changed	Status Primary	Primary Changed	Status Secondary	Secondary Changed	Map	Gateway Type
<input type="checkbox"/>																UG6
<input type="checkbox"/>																UG6
<input checked="" type="checkbox"/>	28443	45.241	2025/3/11 15:51:53	6221C2086075	Active	Not Installed	Provisioned	2025/3/11 15:54:00	Online	2025/4/15 14:32:34	Not Available	2025/3/11 15:51:53	Not Available	2025/3/11 15:51:53		Milesight UG6
<input type="button" value="ADD ALL TO BATCH LIST"/>																

Locate the newly added gateway using its serial number (SN) and click it:

LoRaMac  
Created: 2025/3/11 15:51:53

Communication  
Connected: Online 2025/4/15 14:32:34  
Status Primary: Not Available 2025/3/11 15:51:53  
Status Secondary: Not Available 2025/3/11 15:51:53  
Remote Access: Unknown

Owner  
Network Provider: Milesight  
Gateway License: Milesight License, Not Activated

Status  
Active: Yes  
Provisioned: No 2025/4/16 11:43:26  
Installed: No

Connections  
Primary Connection: Status Monitoring: Missing  
Secondary Connection: Status Monitoring: Missing  
MAC: Missing  
IMEI: Missing  
ICCID: Missing  
IMSI: Missing

Monitoring  
Excluded from monitoring: No  
Status Notification: Use Gateway License monitoring

Provisioning  
Network Server: LNS EU-N1  
Gateway Type: Milesight UG6S  
Category: Outdoor  
Manufacturer: Milesight  
Packet Forwarder: Semtech LoRa Station  
Frequency Plan: EU868-1 (8ch) (867.1-868.5)

Description: <http://portal.lorawan.net/gateways/28443>

Click the "PROVISION" button and wait a few moments:

The screenshot shows a detailed configuration page for a LoRaMac gateway. The main panel displays various settings like Network Server (LNS EU-N1), Gateway Type (Mileight UG65), and Frequency Plan (EU868-1 [8ch] [867.1-868.5]). A central modal window titled 'Provisioning Successful' contains the message 'Provisioning Successful' with an 'OK' button. A red arrow points to this 'OK' button.

Click “OK” to complete the gateway activation.

At this point, the data link between your gateway and Netmore is successfully established.

You can refer to the image below to verify the configuration:

This screenshot shows the 'Information' tab of the gateway configuration interface. It lists details such as Gateway Id (28443), Alias (45\_241), and Status (Active). The 'Status' section shows Active (Yes) and Provisioned (Yes 2025/4/16 11:43:53). Red arrows highlight the 'Active' status and the 'Provisioned' status. The 'Connections' and 'Monitoring' sections are also visible.

## 7. Adding sensors

Next, we will use AM103 as an example.

You can add sensors in two ways:

### 7.1. Single Device Registration (for testing)

Use the portal UI to manually add a device:

- Provide DevEUI, AppEUI, and AppKey
- Save the device
- Provision and activate it

Please follow the screenshots below to proceed:

The screenshot shows the main dashboard of the netmore LoRaWAN platform. On the left, there is a navigation sidebar with various menu items under categories like Network Provider, Service Provider, and Administration. A red arrow points to the '+ Create Sensor' button under the Service Provider section.

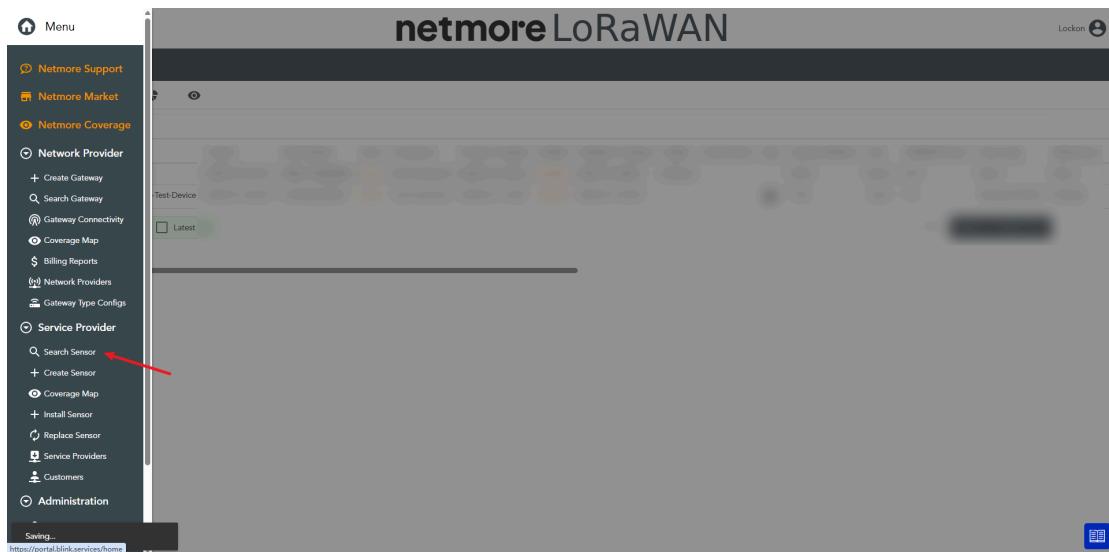
This screenshot shows the 'Create Sensor' dialog box overlaid on the main gateway details page. The dialog box contains several configuration fields, each with a red box highlighting it. Red numbers 1 and 2 point to specific fields: 1 points to the 'Class' dropdown set to 'Class A', and 2 points to the 'CREATE' button at the bottom right of the dialog.

Fill in the parameters as shown.

**Note:**

This is only a pre-configuration step , the AppKey and other details will be configured later.

After creation, perform a device search:



Locate the recently added AM103 device using its serial number (SN), and click to enter its settings and complete the remaining configuration:

This screenshot shows the 'Search Sensor' page. It displays a table of sensor devices. One row is selected, showing details for a device with DevEUI 2AE124725E286203, alias Lockon-Test-Device, and serial number 6725E28620340017. The status is Active, and it was provisioned on 2025/4/15 14:50:18. The latest communication was on 2025/4/16 11:52:00. The table includes columns for DevEUI, Alias, Created, Serial Number, Active, Provisioned, Provision Changed, Installed, Installation Changed, Installer, Fixed Position, Map, Activation Method, Class, LoRaWAN Version, Sensor Type, Manufacturer, and P. At the bottom left of the table, there is a 'Latest Communication' button with a red arrow pointing to it, and a 'Latest Join' button.

This screenshot shows the 'Information' page for the selected device. It contains sections for DevEUI, Alias, Created, Serial Number, Status, Communication, Export, Provisioning, and Service Provider. The 'Communication' section shows the latest communication timestamp as 2025/4/16 11:51:47. The 'Export' section shows export config, topic, profile, and position. The 'Provisioning' section shows activation method as OTAA - Over the Air Activation, class as Class A, and version as 1.0.3. The 'Service Provider' section shows the customer as Milesight and the status as Missing. At the bottom left, there is a 'PROVISION' button with a red arrow pointing to it.

The screenshot shows the 'Information' tab of a LoRaWAN device configuration. A modal window titled 'Provisioning Successful' is displayed, containing the message 'Provisioning Successful' with an 'OK' button. The background shows device details like DevEUI, Alias, and Communication logs.

Wait a moment and check the data uplink status of the AM103 device as shown:

The screenshot shows the 'Value Selection' section of the netmore LoRaWAN dashboard for the Sensor - 24E124725E286203 - Milesight (AM103) device. It displays a bar chart of frequencies and spreading factors. The 'Frequencies' chart shows values for various channels, with a tooltip for 867.7 MHz indicating 12.80% values (Count: 128). The 'Spreading Factors' chart shows a single bar at 100%.

The screenshot shows the 'Documentation' and 'Map' sections of the netmore LoRaWAN dashboard for the same device. The 'Documentation' section lists installed status and timestamp as missing. The 'Map' section shows the device's location in Höröd, Sweden, with coordinates 56.250000, 13.750000.

netmore LoRaWAN

Sensor - 24E124/25E286203 - Milesight (AM103)

Value Selection

LAST DAY LAST WEEK LAST MONTH LAST YEAR CUSTOM

1000 values **FETCH MORE**

**Values**

Comm. Timestamp	FCnt	SpFact	DR	RSSI	SNR	Gateway	Payload (Hex)	Payload
2025/4/16 11:51:47	1312	7	5	-52 dBm	13.25 dB	28443 -45.241	01756303670501046859077d5e02	01756303670501046859077d5e02
2025/4/16 11:50:44	1311	7	5	-53 dBm	10.25 dB	28443 -45.241	01756303670501046858077d5a02	01756303670501046858077d5a02
2025/4/16 11:49:43	1310	7	5	-52 dBm	13.5 dB	28443 -45.241	01756303670501046858077d5a02	01756303670501046858077d5a02
2025/4/16 11:48:43	1309	7	5	-52 dBm	10.5 dB	28443 -45.241	01756303670501046859077d5b02	01756303670501046859077d5b02
2025/4/16 11:47:43	1308	7	5	-53 dBm	11.5 dB	28443 -45.241	01756303670501046859077d5b02	01756303670501046859077d5b02
2025/4/16 11:46:45	1307	7	5	-52 dBm	14 dB	28443 -45.241	0175630367060104685a077d602	0175630367060104685a077d602
2025/4/16 11:45:45	1306	7	5	-52 dBm	13.75 dB	28443 -45.241	01756303670601046858077d602	01756303670601046858077d602
2025/4/16 11:44:41	1305	7	5	-53 dBm	11.5 dB	28443 -45.241	0175630367050104685b077d9e02	0175630367050104685b077d9e02
2025/4/16 11:43:46	1304	7	5	-52 dBm	11.75 dB	28443 -45.241	0175630367050104685c077d9e02	0175630367050104685c077d9e02
2025/4/16 11:42:45	1303	7	5	-53 dBm	13.5 dB	28443 -45.241	0175630367050104685d077d902	0175630367050104685d077d902

Sensor type specific values  Additional values

1 2 3 4 5 11 Count: 10 / 1000

Additionally, readers can configure GPS or other metadata for the sensor based on actual use cases.

## 7.2. Bulk Device Upload (Recommended for Production)

1. Navigate to the Device Management page:

Welcome to Netmore LoRaWAN

Accomplish more with less

Create Sensor



2. Download the Excel Template
3. Fill in device information including DevEUI, AppKey, AppEUI, etc.
4. Upload the file to register multiple devices at once

Devices will be automatically provisioned during upload

This method is more efficient and ideal for large-scale onboarding.

At this point, both your gateway and sensor are successfully connected to the Netmore platform, with real-time data transmission established.

## 8. Data Forwarding to Third-party Platforms

Instead of viewing decoded data directly in the portal, Netmore recommends exporting your data to external platforms for decoding and visualization.

### Using HTTP Integration:

1. Go to the Service Providers section on the portal:

Name	Export Type	Export Format	URL
http push test	HTTP Push	Default Other	<a href="https://api.milesight.com/api/v1/lora/devices">https://api.milesight.com/api/v1/lora/devices</a>

Saving...

## 2. Create a new HTTP endpoint

The screenshot shows the 'Service Provider - Milesight' interface under the 'netmore LoRaWAN' heading. In the 'Export Configs' section, there is a table with columns: Name, Export Type, Export Format, and URL. One row is visible: 'http push test', 'HTTP Push', 'Default Other', and 'http://129.6.12.100:8080/test'. Below this is the 'Export Profiles' section, which is currently empty. At the bottom left, a 'Saving...' message is displayed.

## 3. Configure:

The screenshot shows the 'Service Provider - Milesight' interface under the 'netmore LoRaWAN' heading. A modal dialog box titled 'Modify Export Config' is open over the 'Export Configs' table. The dialog contains fields for 'Name' (http push test), 'Export Format' (Default Other), 'Export Type' (HTTP Push), 'URL' (http://129.6.12.100:8080/test), and 'Headers' (No Headers Configured). At the bottom right of the dialog, there are 'DELETE' and 'SAVE' buttons, with a red arrow pointing to the 'SAVE' button.

## 4. Save and test the connection

On the http server side , you will see the data received as following:

```
C:\tools\fake-http>fake-http.exe -port 9999
fake-http Server is listening on port 9999 using http
=====
REQUEST START =====
FROM: 
DATE: 2025-04-15T16:28:16+08:00
=====
POST / HTTP/1.1
Host: 129.6.12.100:9999
Accept: application/json, text/plain, */*
Accept-Encoding: gzip, compress, deflate, br
Connection: keep-alive
Content-Length: 433
Content-Type: application/json
User-Agent: axios/1.8.4

[{"devEui": "24e124725e286203", "sensorType": "am103", "timestamp": "2025-04-15T08:28:15.687Z", "payload": "01756303670601046866077d7702", "freq": 867300000, "spreadingFactor": "7", "dr": 5, "rssi": "-56", "snr": "14.25", "gatewayIdentifier": "2843", "gateways": [{"rssi": "-56", "snr": "14.25", "gatewayIdentifier": "2843", "gwEui": "24e124ffef54092"}], "messageType": "payload", "fcntUp": 89, "batteryLevel": 251, "ack": false, "devAddr": "12409AD8", "fPort": "85"}]
```

By default, Netmore delivers encrypted payloads, and customers typically decode payloads on their own platform using the device decoder.

-END-