How to Integrate Milesight Gateways and Devices into the J2 Innovation FIN Platform (via BACnet)

Version Change Log			
Version	Revision Date	Revision Details	Revised By
V1.0	20250408	Initial	Lockon

Foreword

J2 Innovations is a wholly-owned subsidiary of Siemens. The company primarily offers intelligent building solutions, with its core product being the FIN Framework platform. FIN Framework is an open and scalable IoT platform designed to simplify device management, data integration, and control system development. It enables facility managers, system integrators, and OEMs to quickly implement intelligent management of buildings and devices, while also providing flexible configuration and data analysis capabilities. The platform emphasizes efficient and secure management of buildings and devices, with seamless connectivity to cloud platforms.

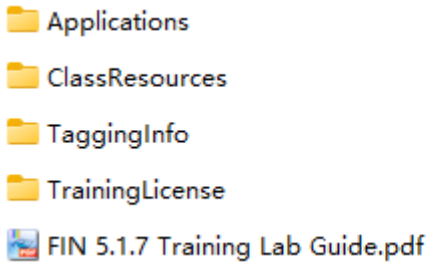
This document introduces the complete process of how to integrate the UG65 gateway with the FIN Framework platform and use the AM319 device (used here as an example; readers can replace it with their own devices based on actual needs).

1. Prerequisites

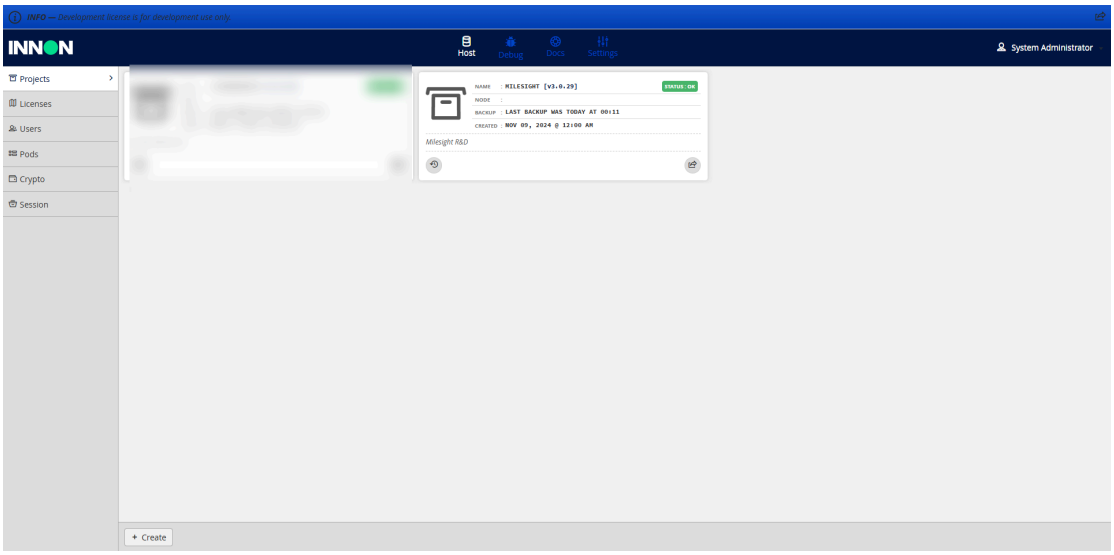
- **Gateway Model:** UG65 (UG56 or UG67 are also supported)
- **Sensor Model:** AM319
- **Frequency Band Used in This Demo:** US915

2. Environment Setup

Contact Siemens to obtain the installation package and license authorization file. The typical file list is shown below:



Install the software and import the license on a Windows or Linux system.
After installation, the default address is usually: **http://[your host IP address]**.
Log in using the default username and password to see the following interface:



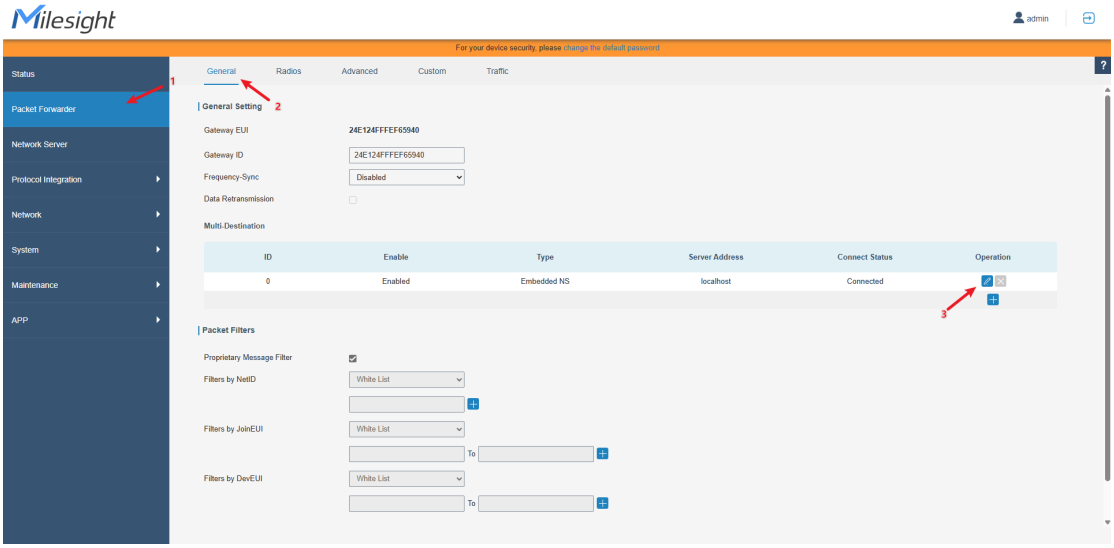
At this point, the platform setup is complete.

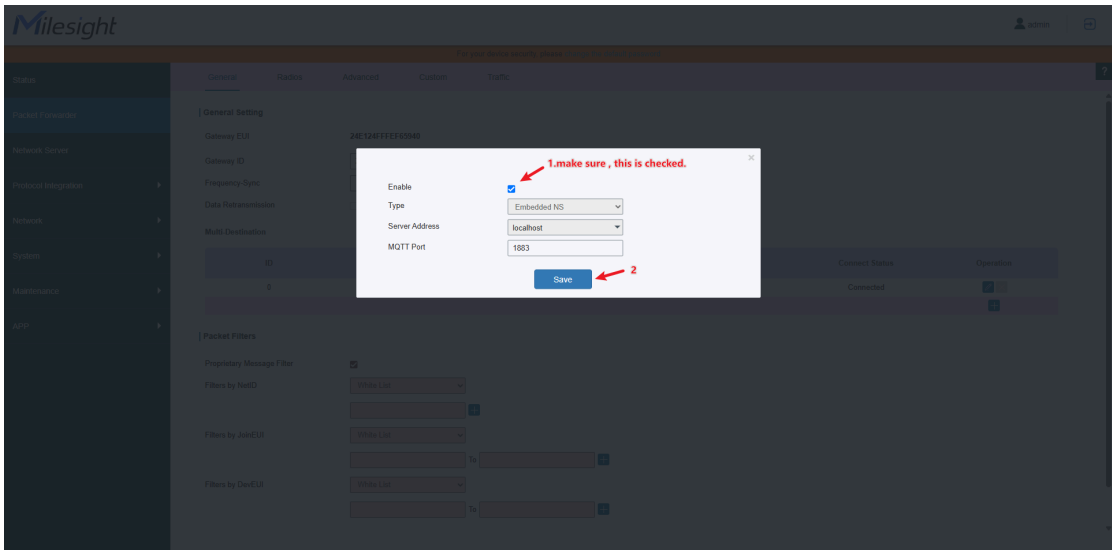
3. Gateway Configuration

3.1. Enable the Built-in Network Server

First, enable the built-in NS (Network Server).

Operate as shown in the image below (*you can skip this step if it is already enabled*):

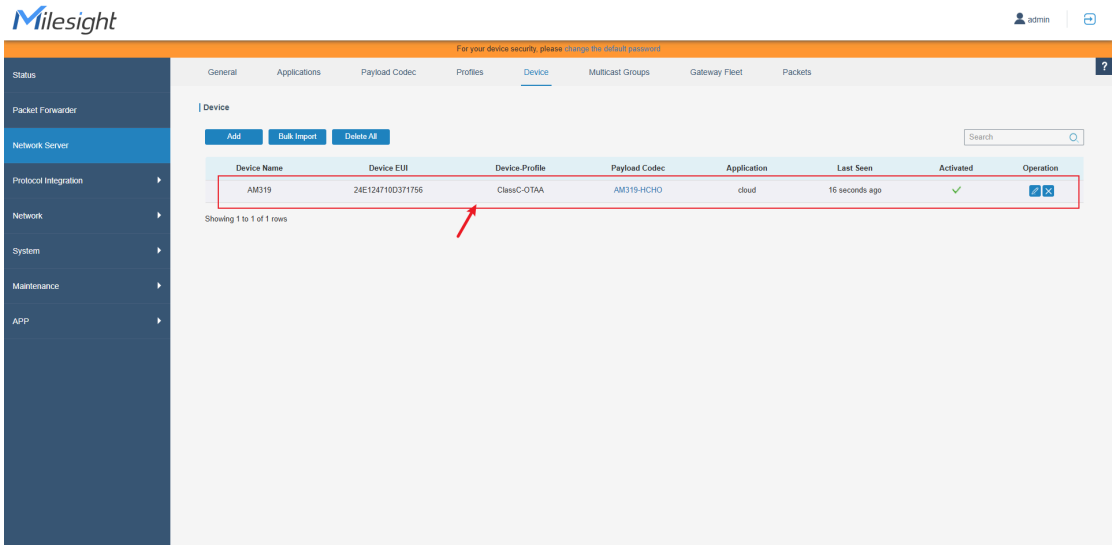




3.2. Add Sensor

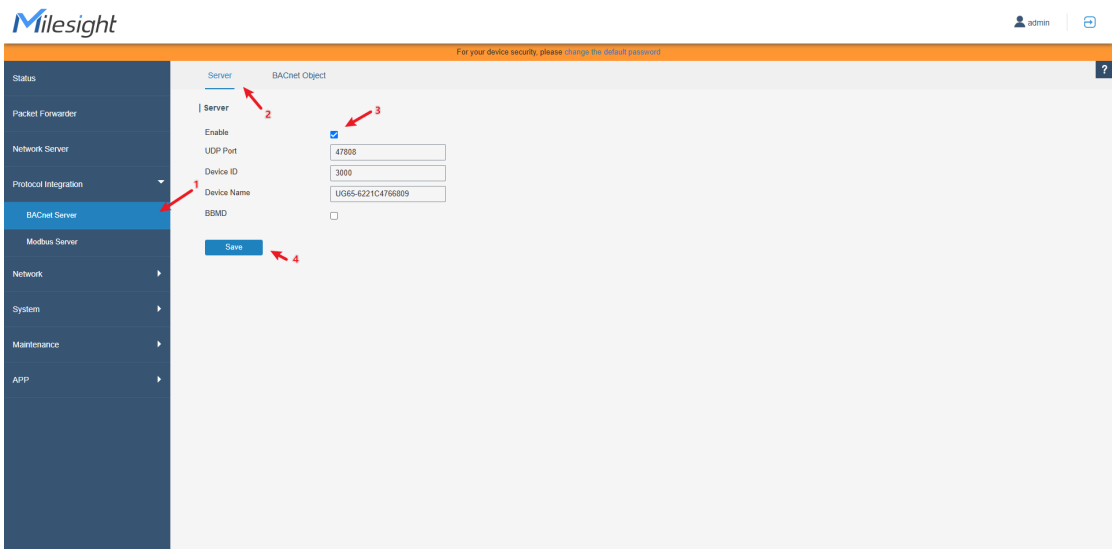
Here we use the AM319 device as an example.

Refer to the guide <How to Connect LoRaWAN Nodes to Milesight Gateway> to complete the configuration. The result after adding the sensor is shown below:



3.3. Enable BACnet Feature

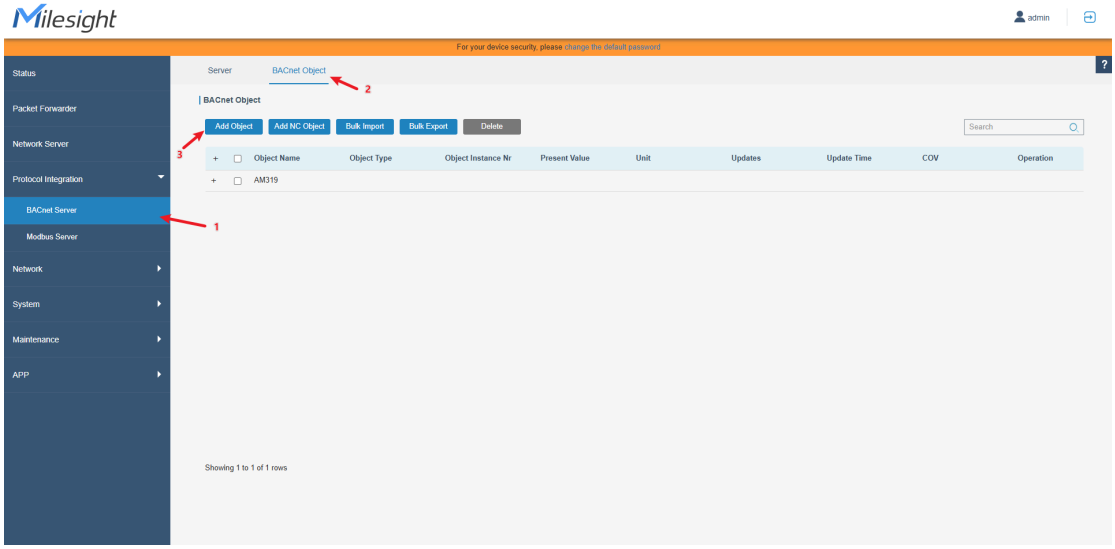
Enable BACnet as shown in the image below:

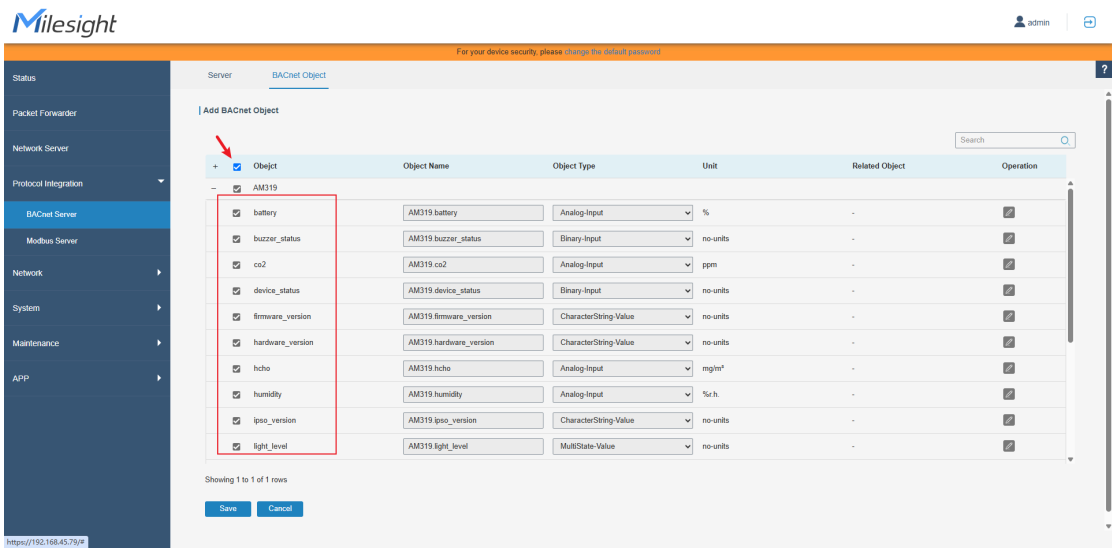


After a few moments, the device will automatically start the BACnet service.

3.4. Add BACnet Object

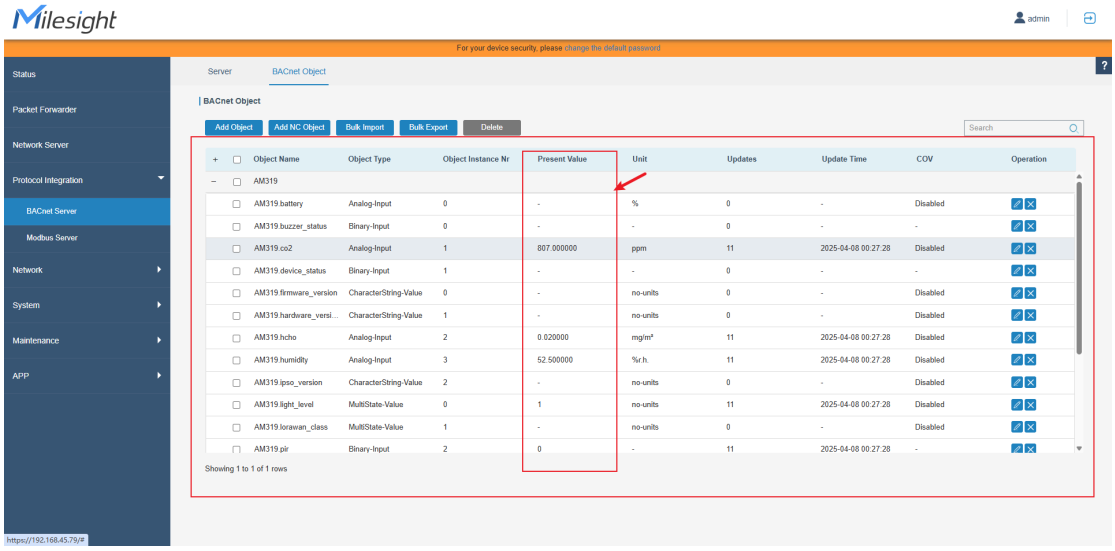
Follow the steps as shown below:





Since the object has already been added, it appears greyed out here , this is normal.

After configuration, the result looks like this:



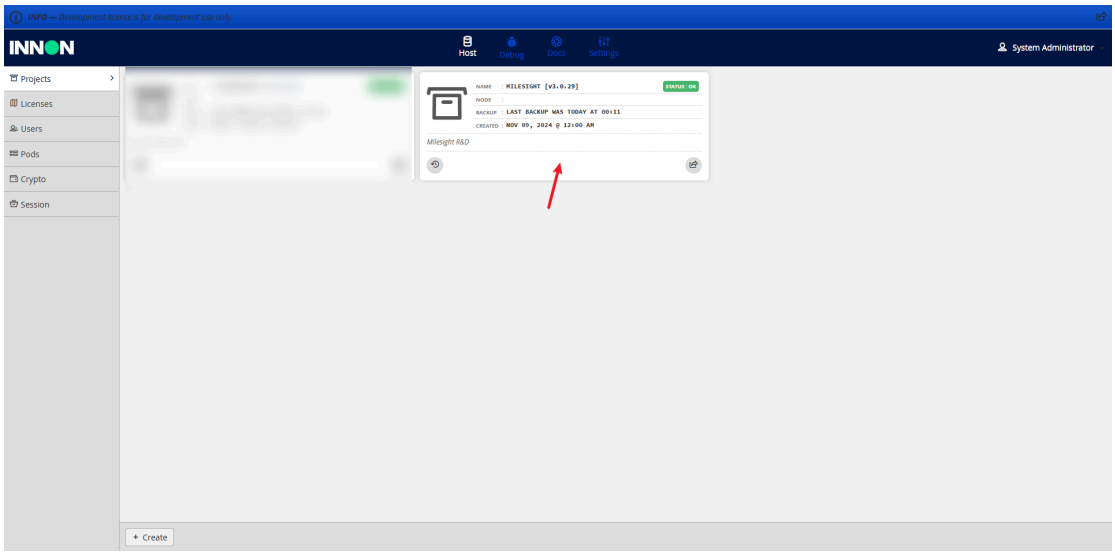
As we can see, the parameters of all BACnet Objects and the data reported by the AM319 device are already being updated in real time.

This completes the gateway configuration.

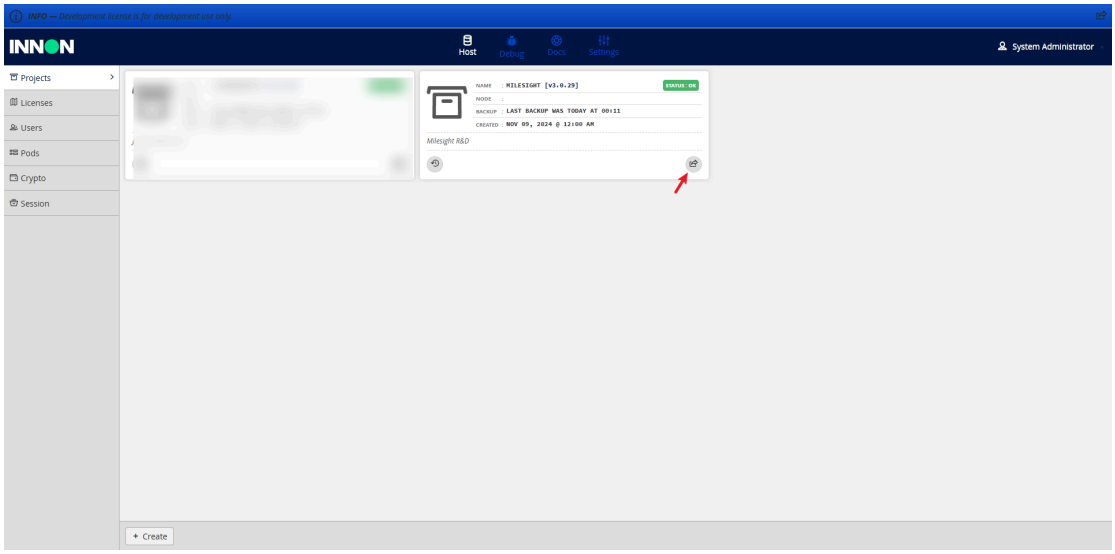
4. Add Gateway in FIN Platform

Return to the J2 Innovation FIN Platform we just deployed.

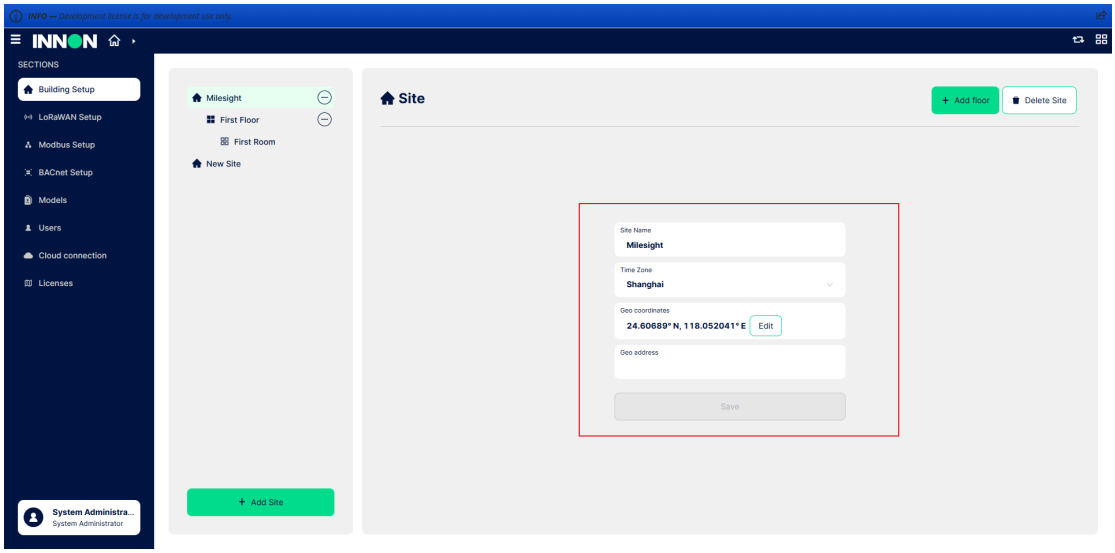
After logging in, you'll see a preconfigured project named "**MILESIGHT**":



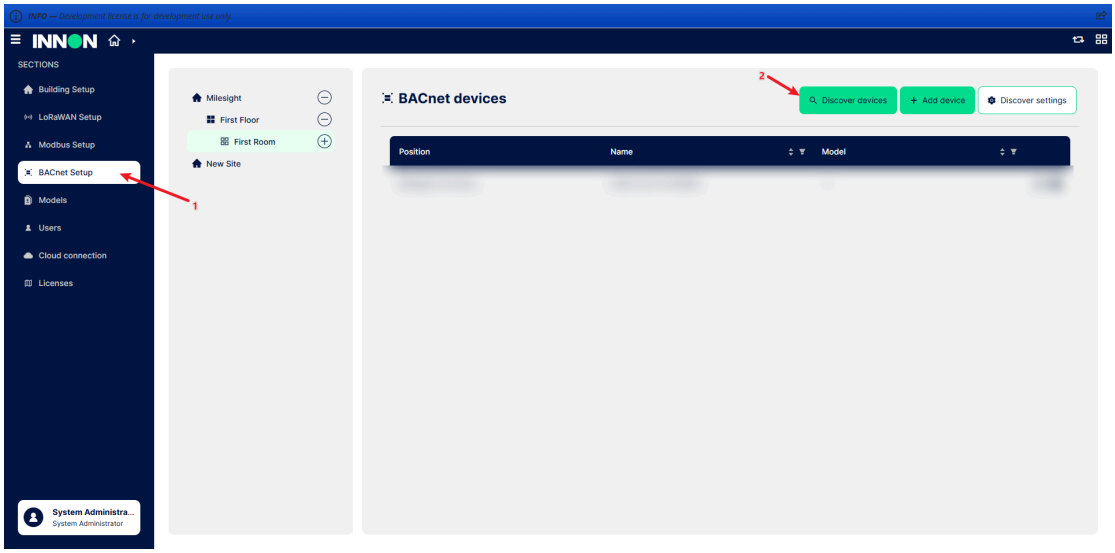
Click the jump button in the lower-right corner to enter the configuration interface:

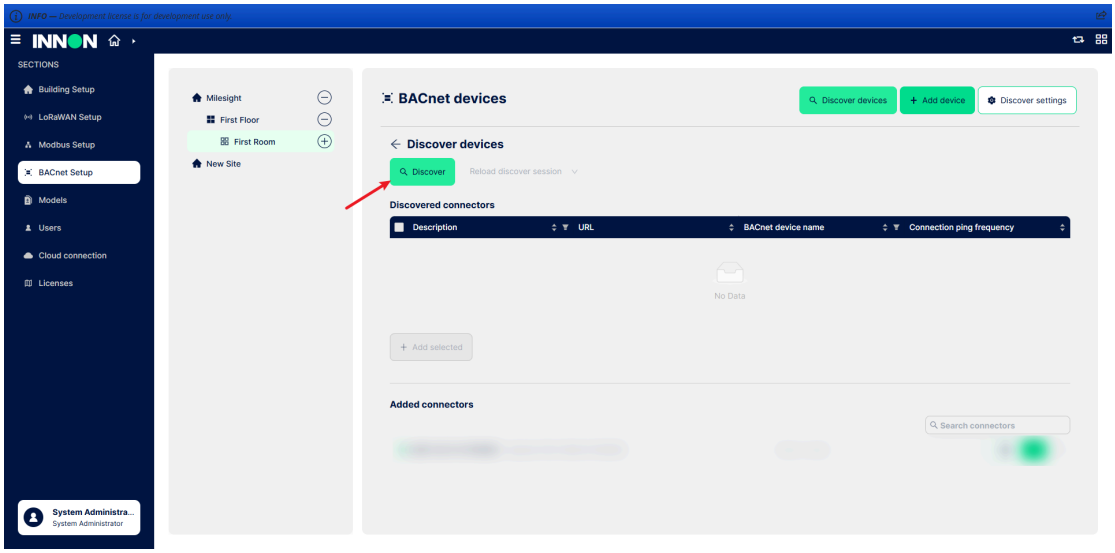


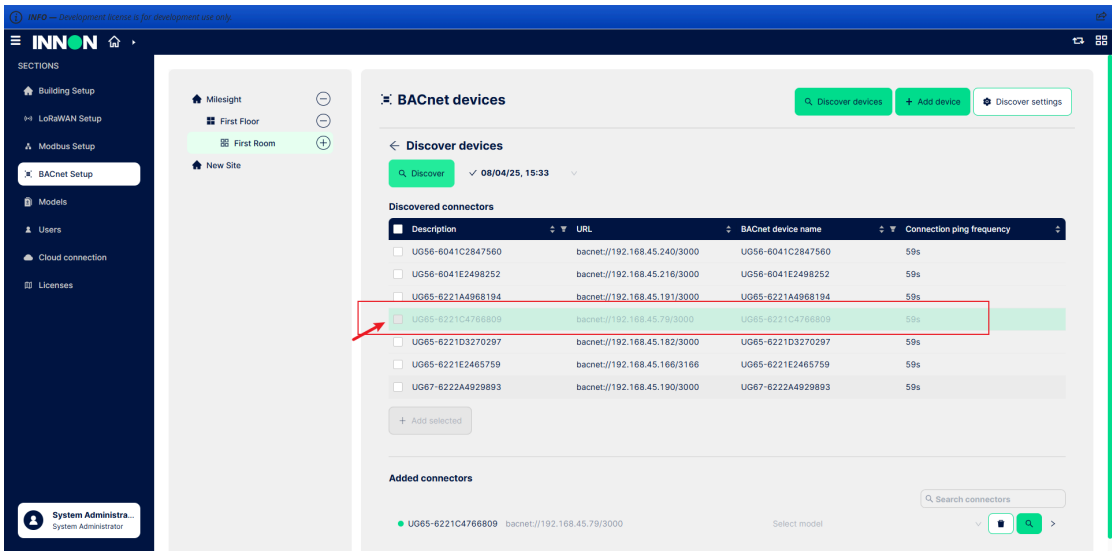
You'll see the system's pre-configured basic information as shown below:



Click on the "**BACnet Setup**" section in the left sidebar and follow the steps shown in the image:

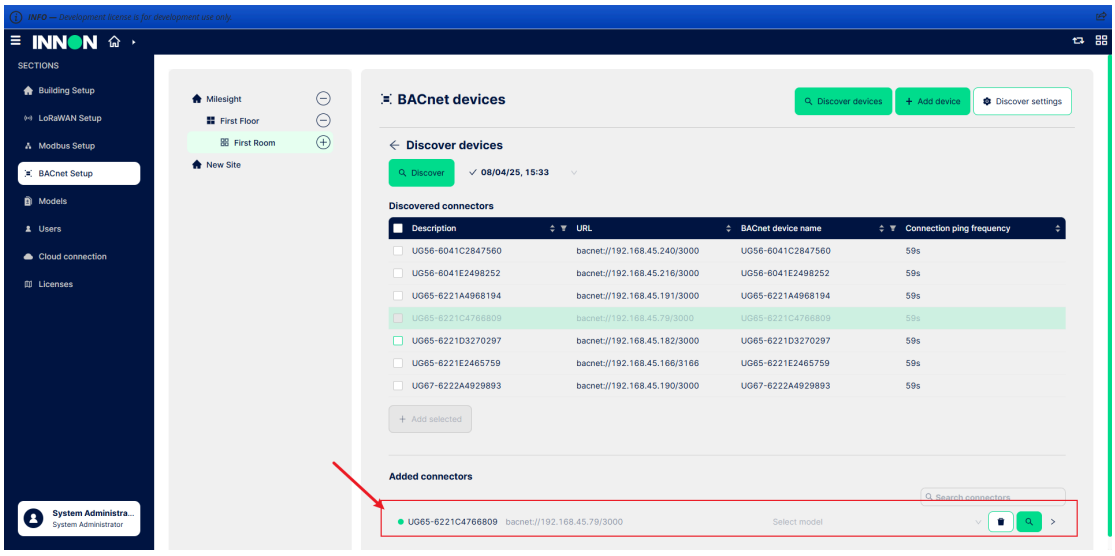






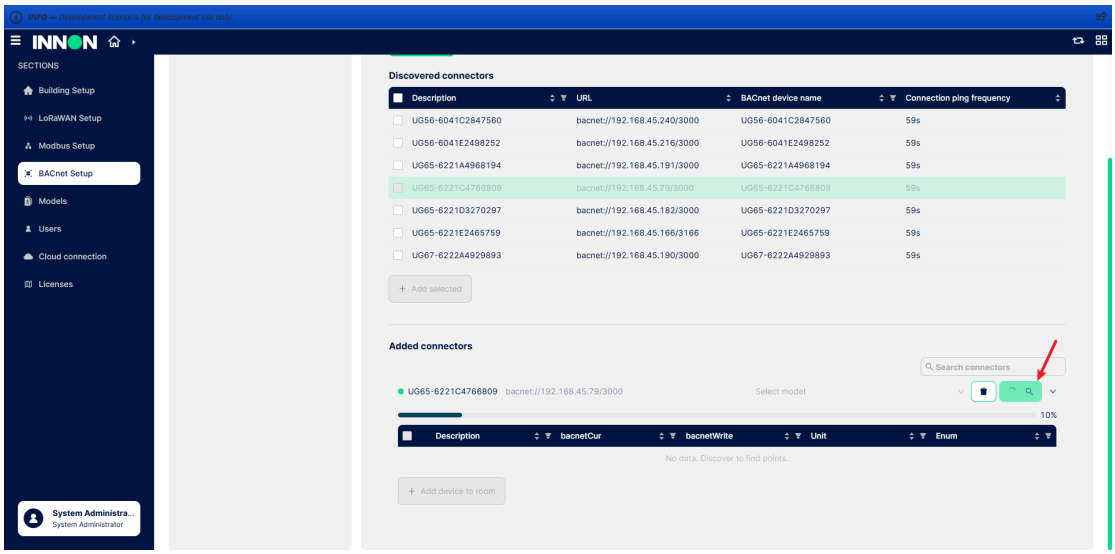
You'll see the address of your gateway (the greyed-out status indicates that it has already been added , this is normal).

Locate your gateway device and click the "**Add selected**" button. The added gateway will appear in the section below, as shown:

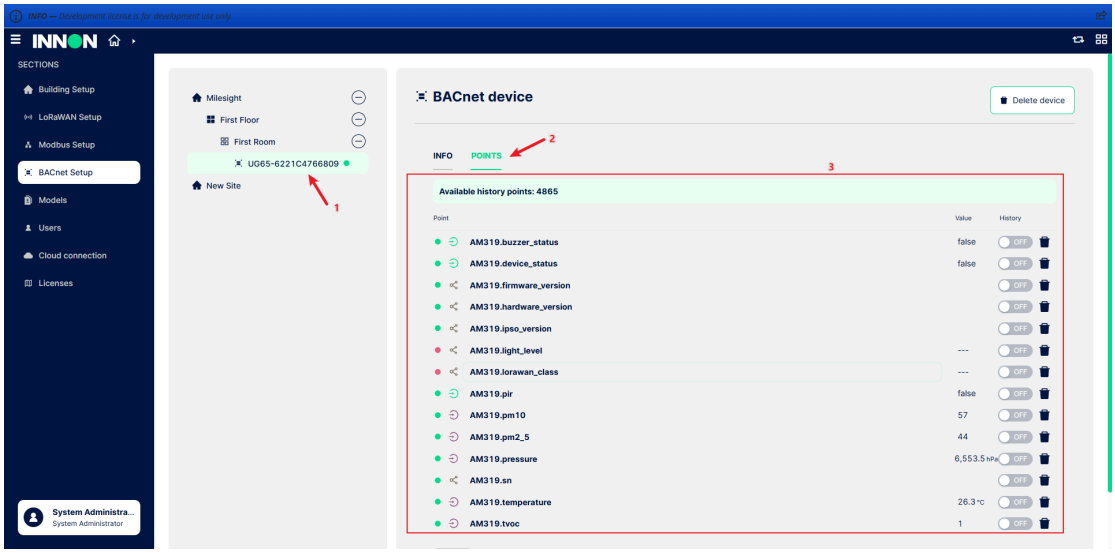


5. Add Points

Click the search icon as shown in the image:



Wait for the progress bar to complete. Select all and add them. The result after adding is shown below:



We can now see that the data from the AM319 device is being updated and displayed in real time in the BACnet Points section.

At this point, the LoRaWAN device, with the help of the gateway, is successfully transmitting real-time data to the J2 Innovation FIN Platform via the BACnet network.

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