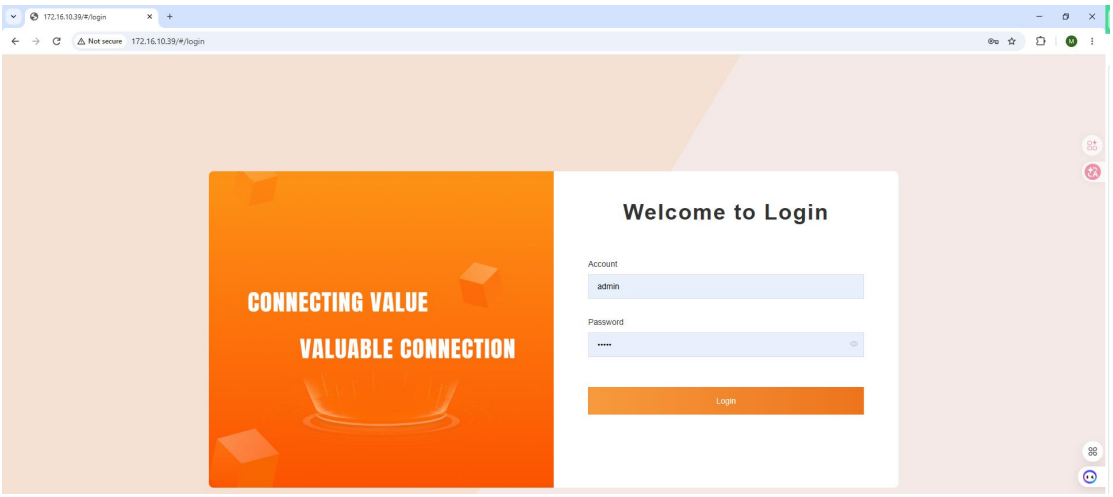
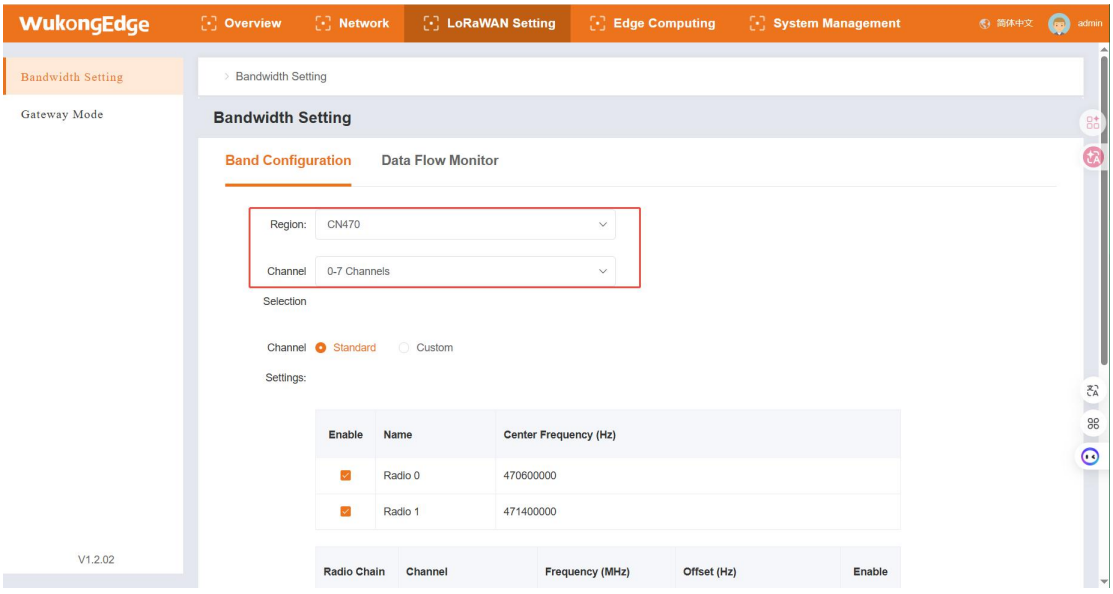
1. Connect the computer to the LAN port of the USR-LG270.

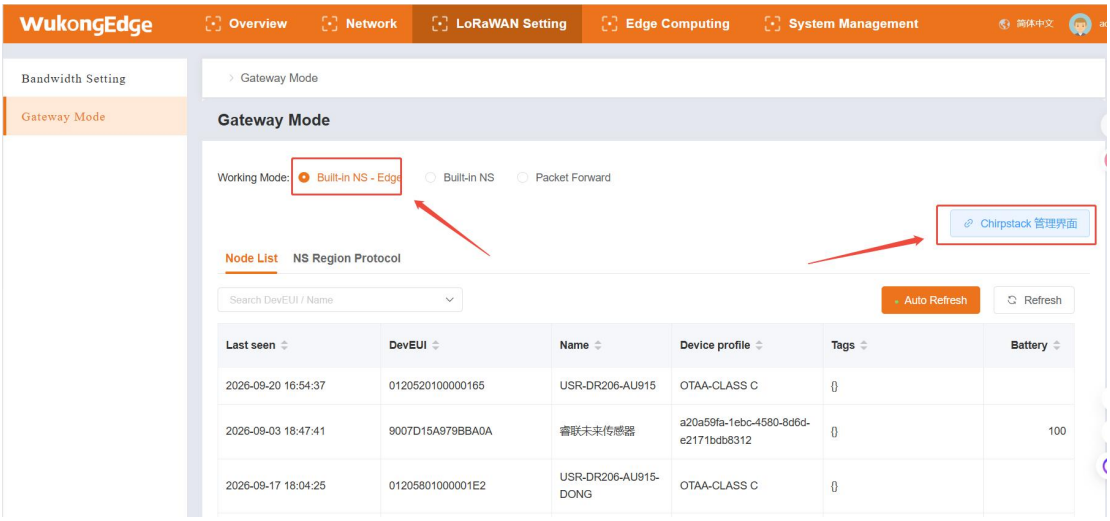
2. Open a web browser on the computer and enter 192.168.1.1. The default username and password are both admin.



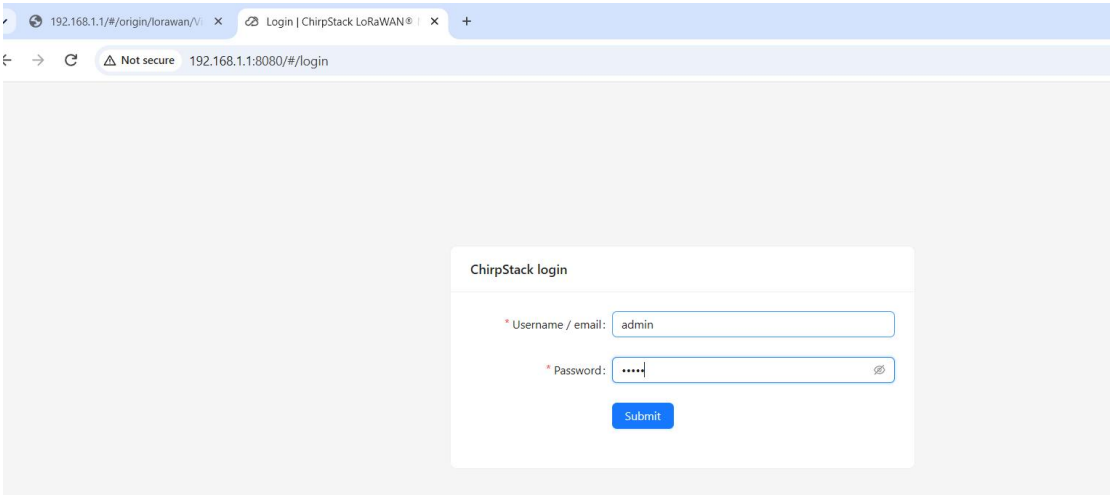
3. Frequency settings: select the CN470 regional parameters and channels 0-7. These settings must match the node settings. Select regional parameters that comply with local regulations; CN470 is used here for illustration only.



4. Set the gateway mode to Built-in NS - Edge, then open the ChirpStack management interface.

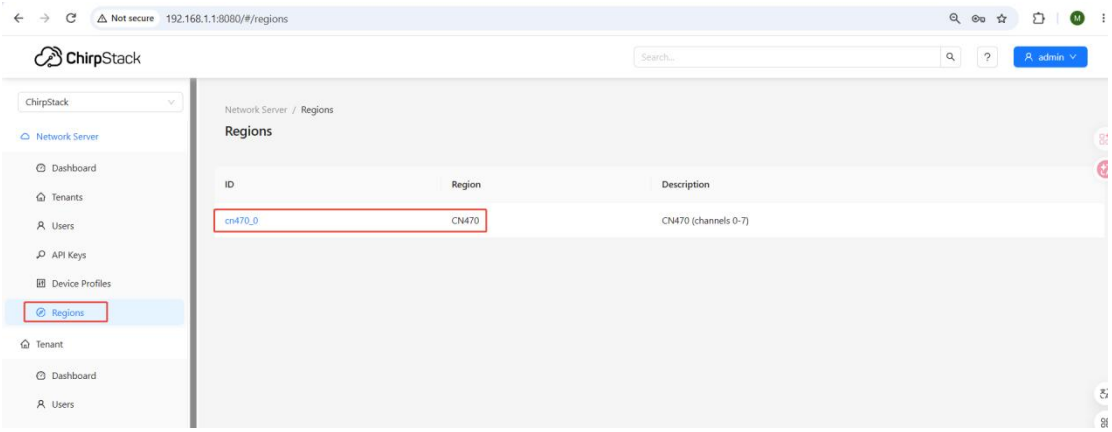


5. Log in to the built-in network server. The username and password are both admin.

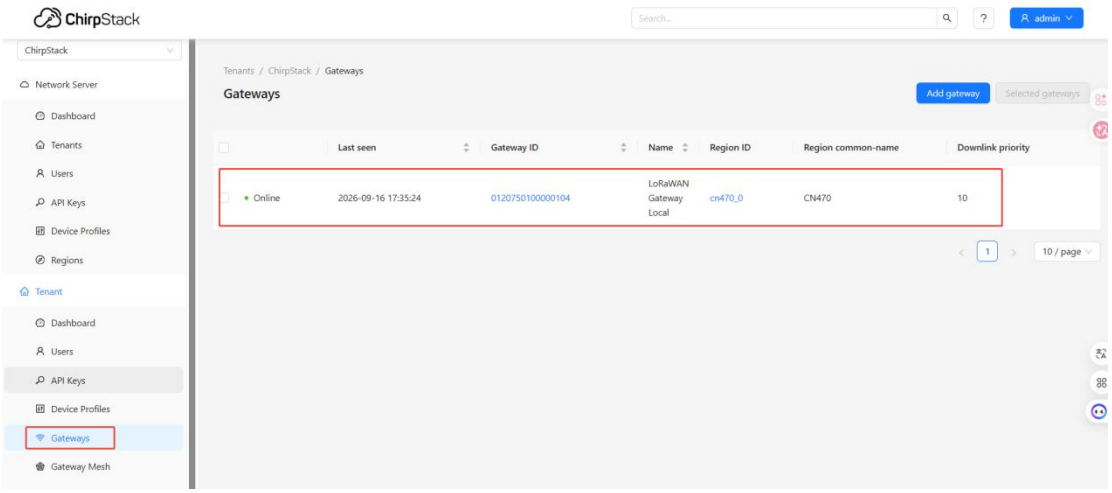


6. Verify the regional configuration. CN470_0 must be available and must match the regional parameters and channel selection configured on the gateway.

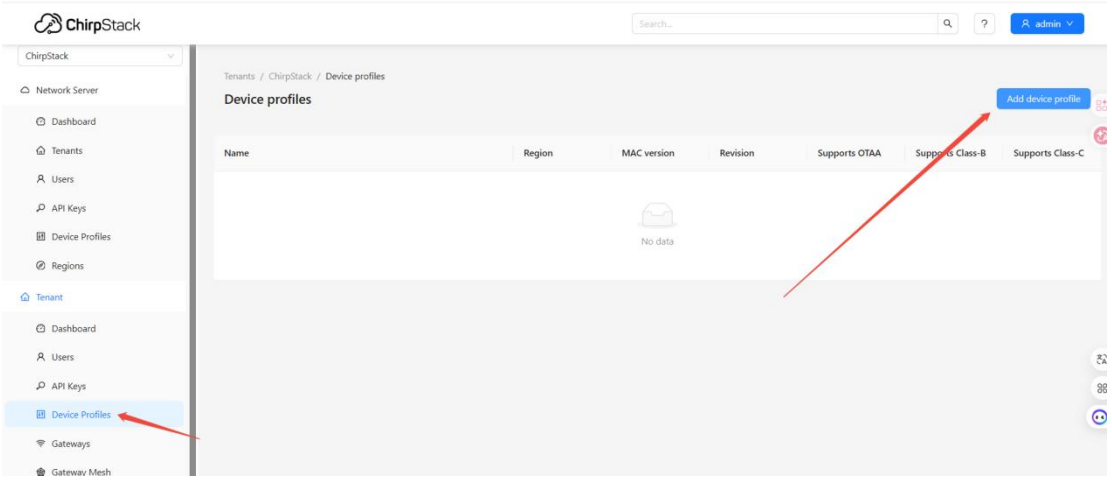
Note: Select regional parameters that comply with local regulations. This example is for illustration only.



7. Check the gateway online status.



8. Add a Device Profile.

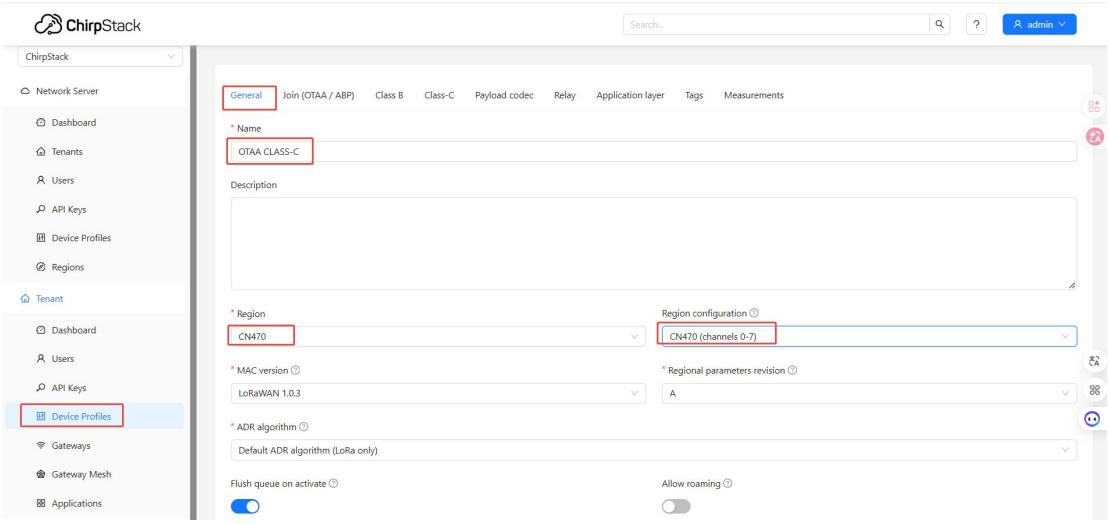


9. Configure the Device Profile.

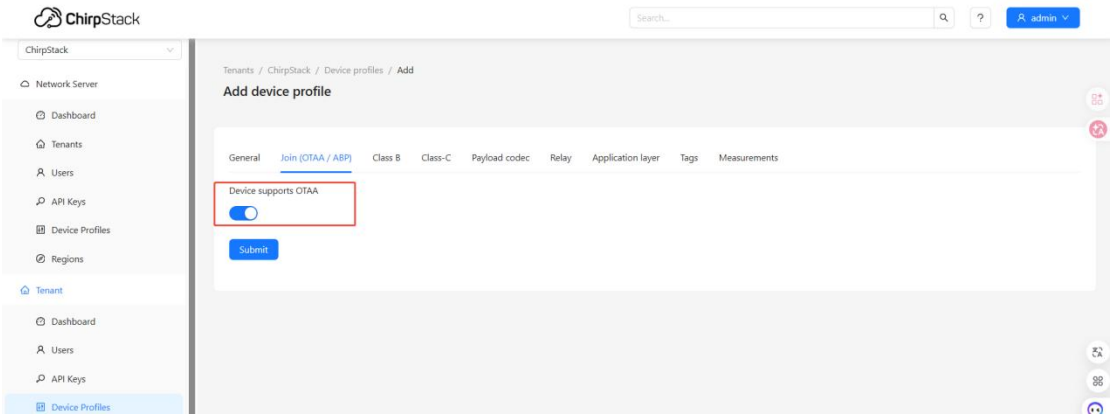
Name: User-defined. In this example, name the profile after the LoRaWAN activation method and device type.

Region: CN470

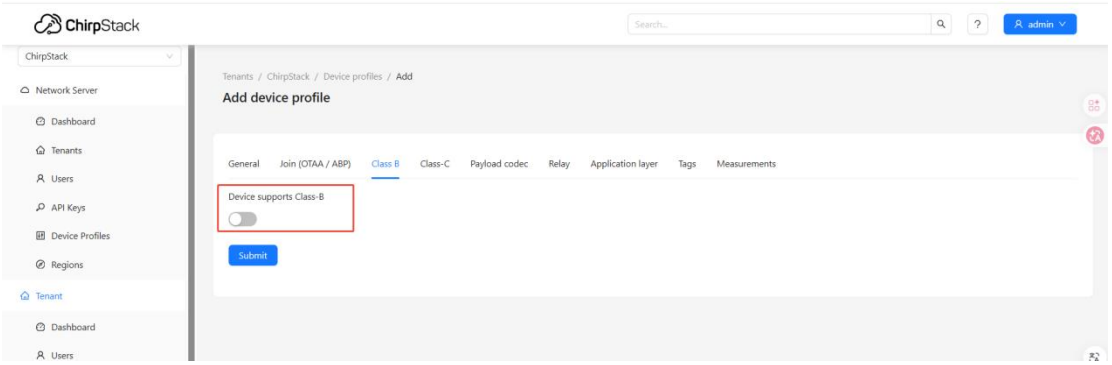
Region configuration: CN470 (Channels 0-7)



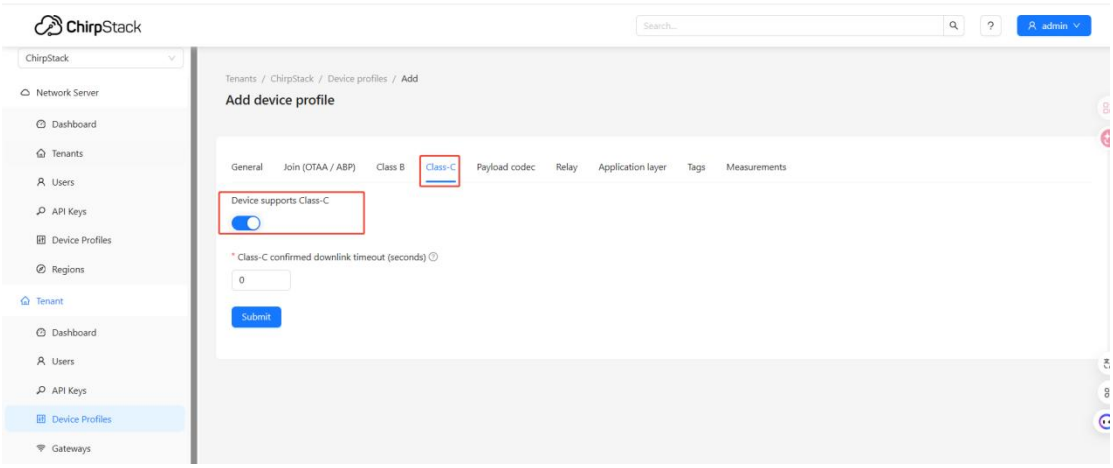
This example uses OTAA activation. Enable OTAA.



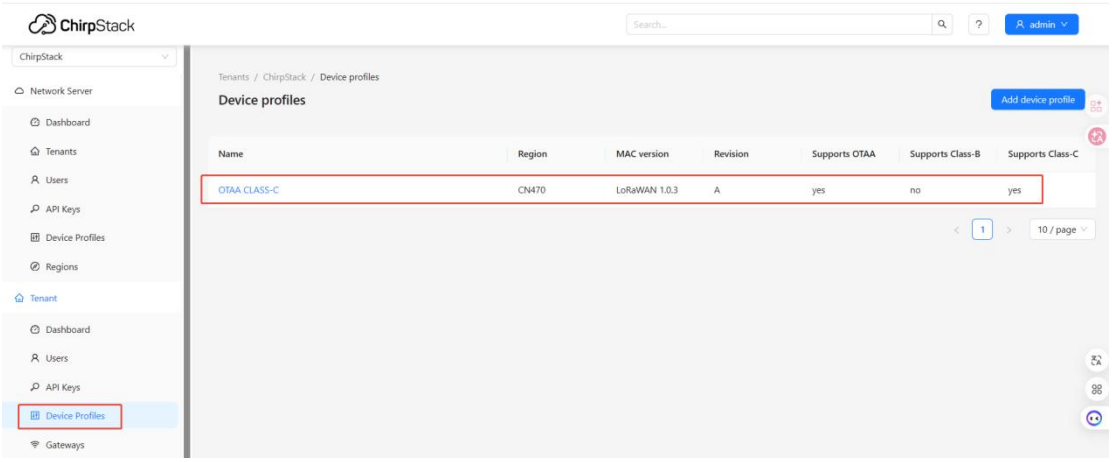
The DR206 does not support Class B. Disable Class B.



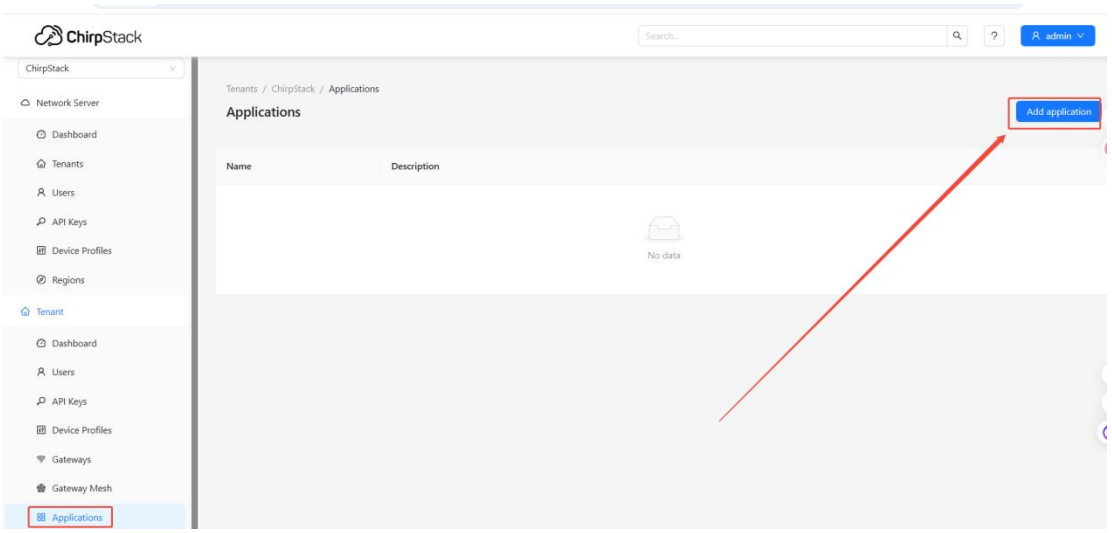
The USR-DR206 is a Class C device. Enable Class C.



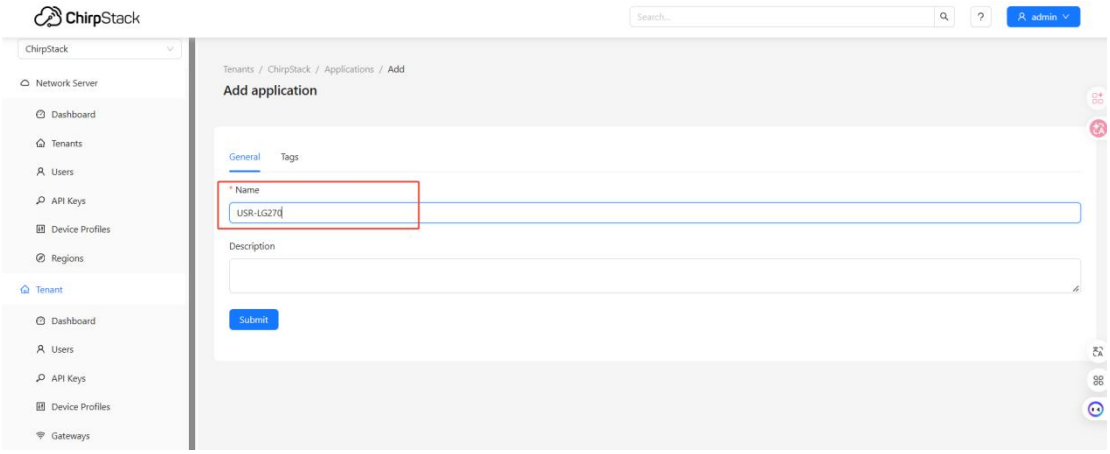
When configuration is complete, click Submit to create the Device Profile.



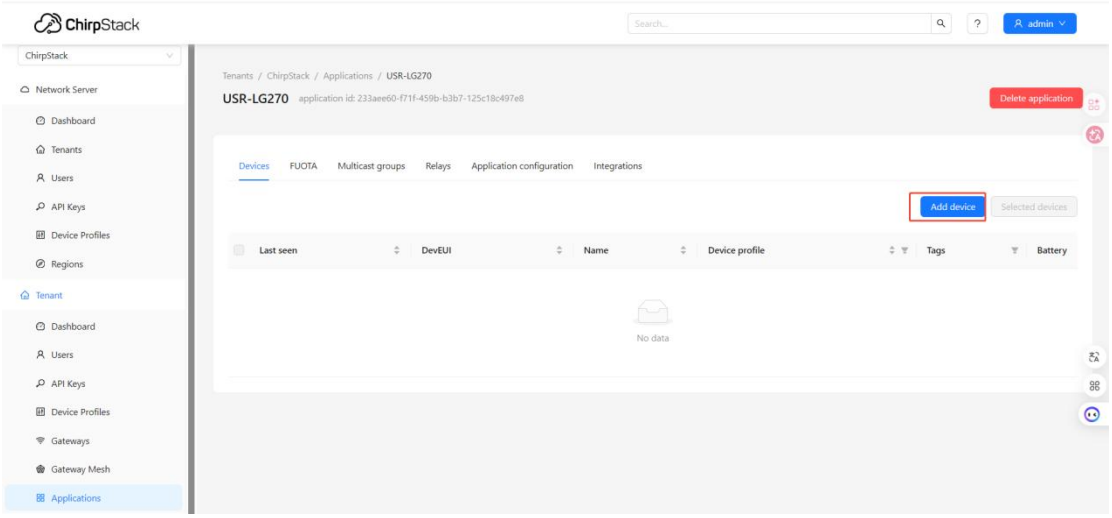
10. Add an Application.



Name: User-defined. This example uses USR-LG270.



Add a Device.

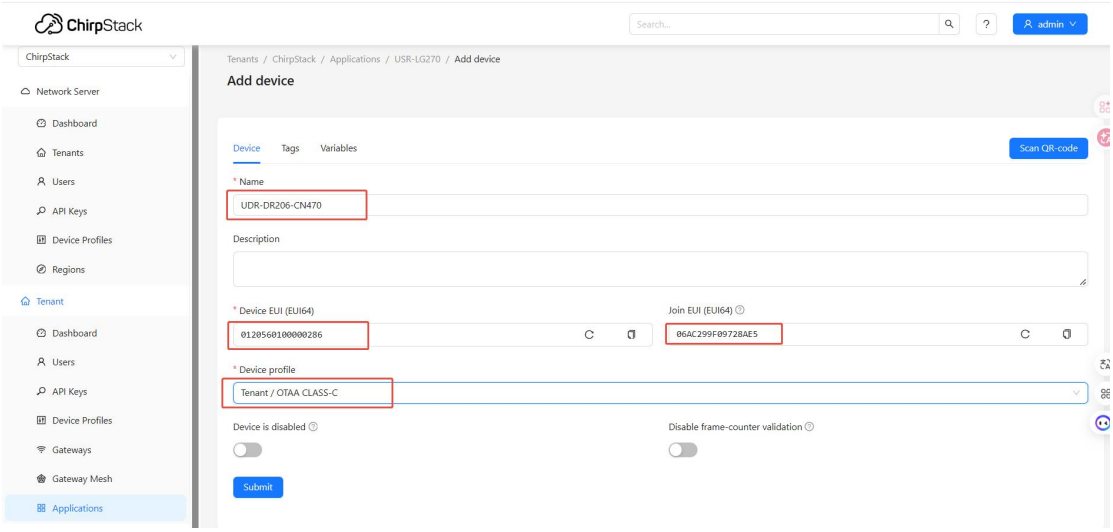


Name: User-defined.

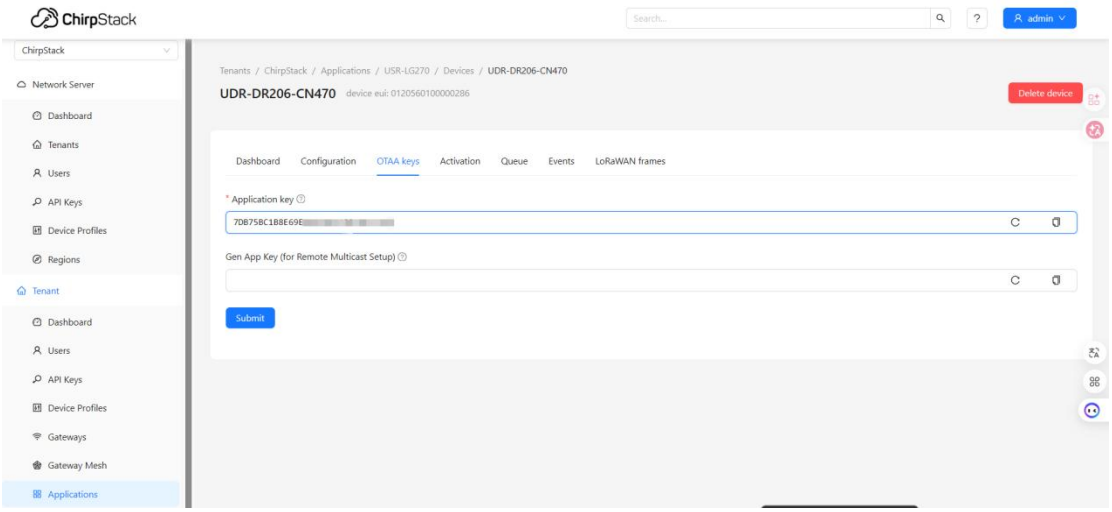
Device EUI: Available on the DR206 label or in the DR206-CN470 configuration utility.

Join EUI: Corresponds to the AppEUI shown in the DR206 configuration utility.

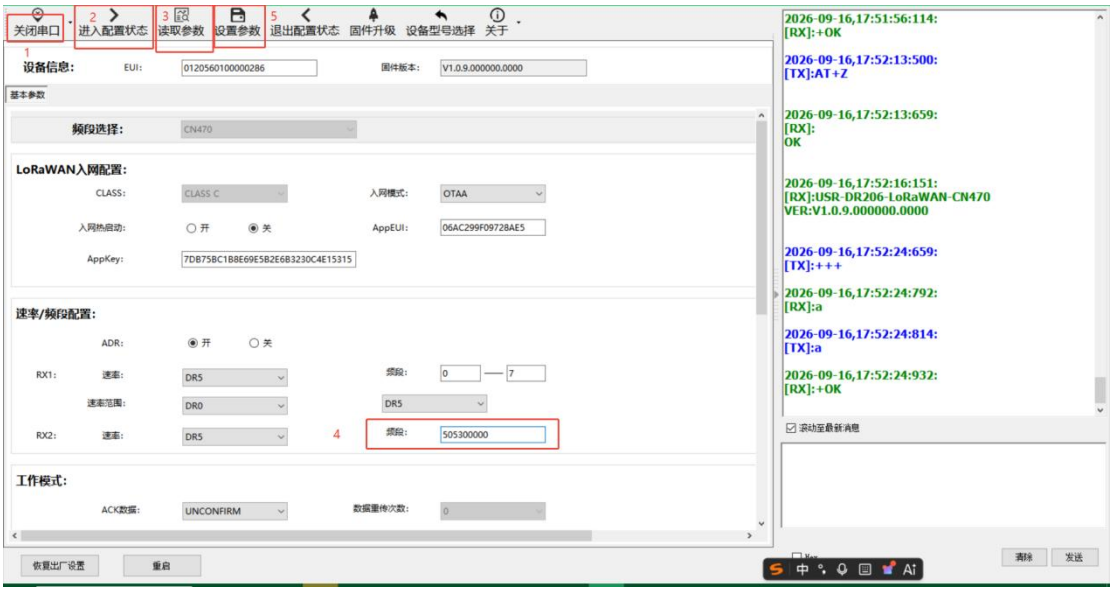
Device Profile: Select the Device Profile created above.



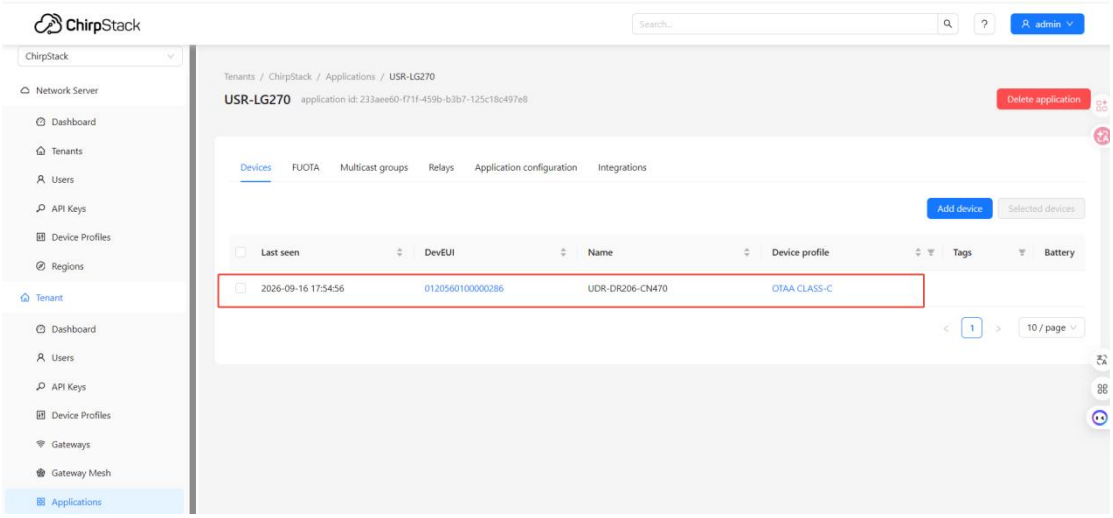
Enter the AppKey, which can be found in the DR206 configuration utility.



11. Configure the USR-DR206 LoRaWAN Node.

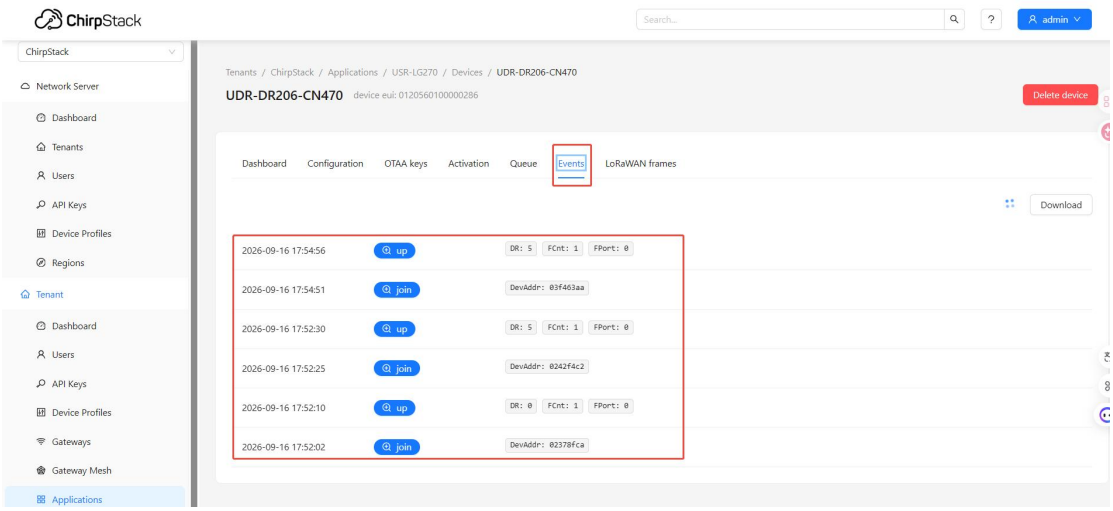


12. Check whether the node is online.

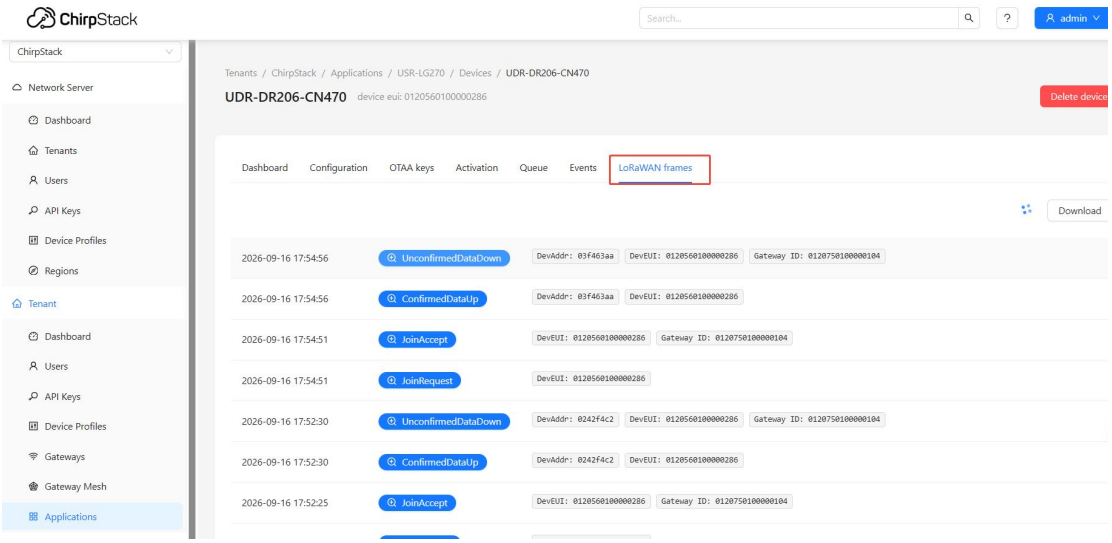


13. View data exchanges between the node and the network server.

1. Query Event Information

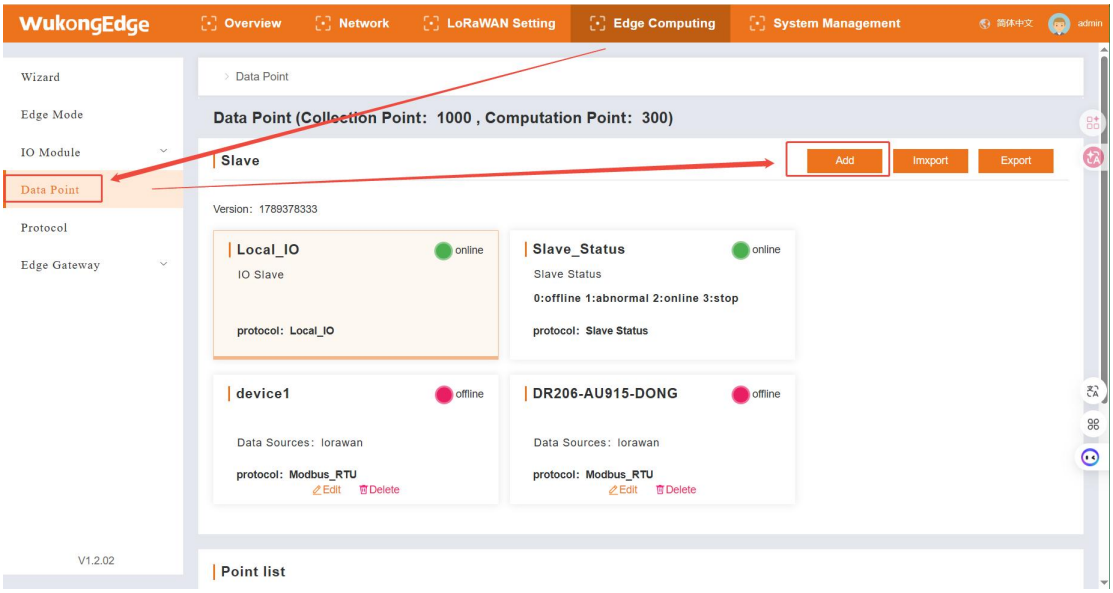


2. Query LoRaWAN Data Stream Information



14. Configure Edge Data Acquisition.

1. Add a Slave Device



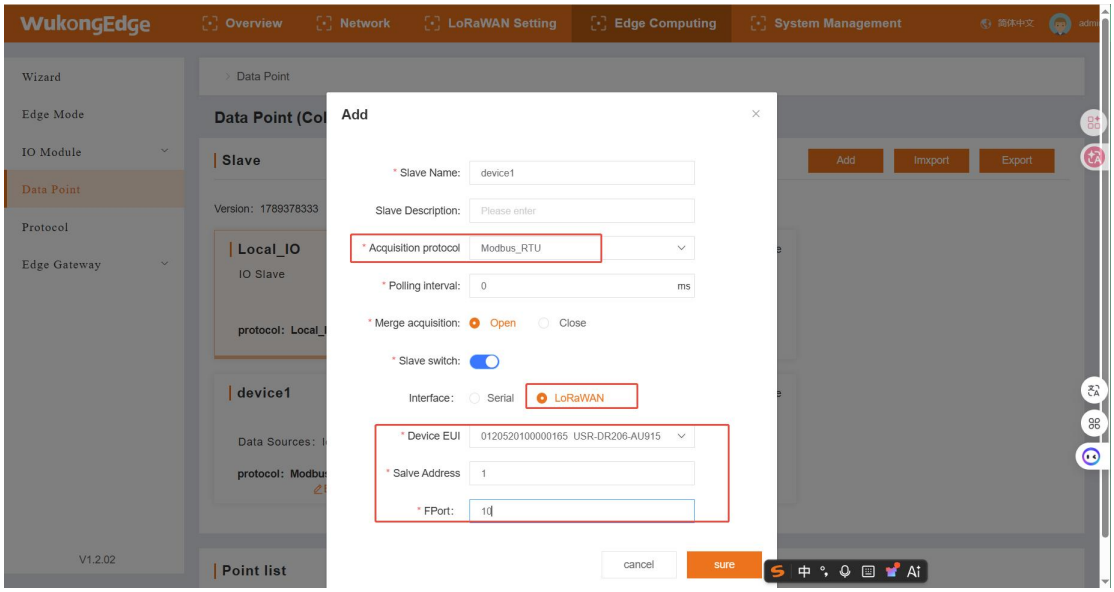
Acquisition protocol: Modbus RTU

Interface: LoRaWAN

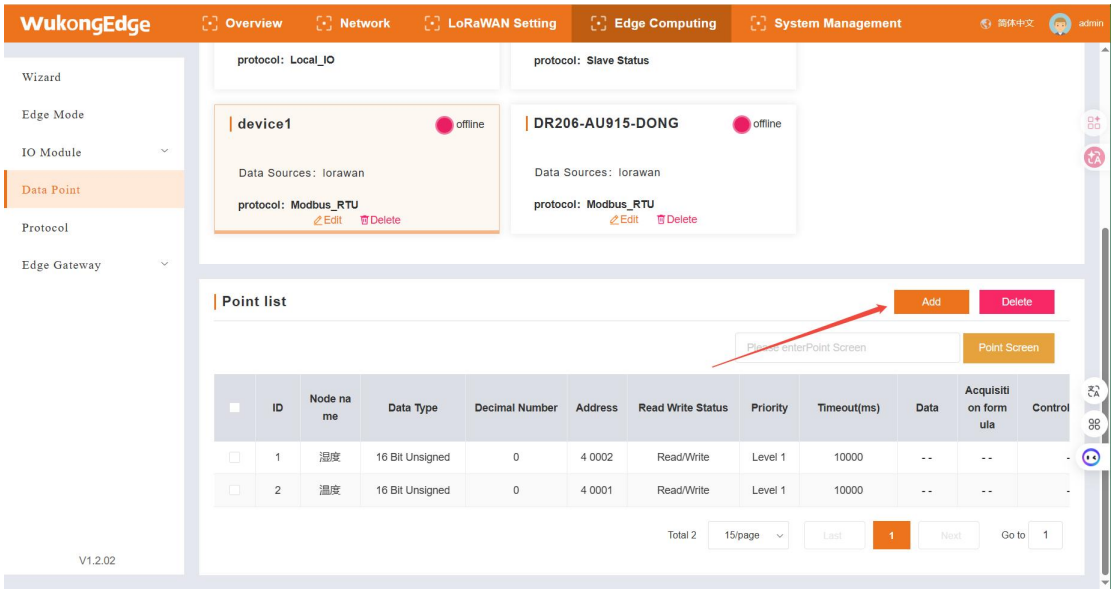
Device EUI: Select the EUI of the device to be collected through edge acquisition.

Slave address: Modbus slave device address.

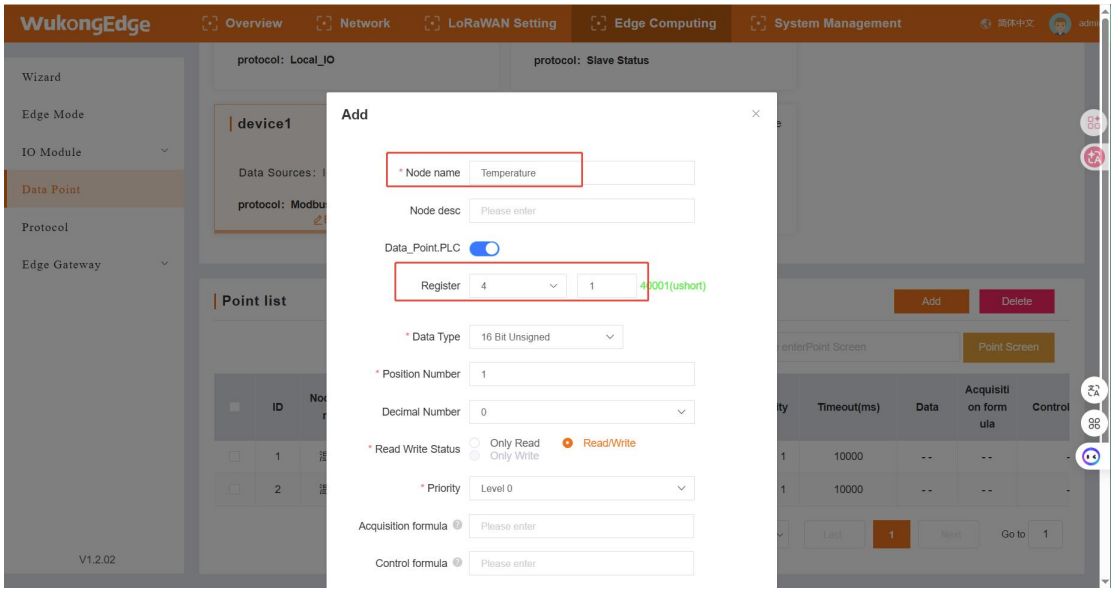
FPort: The default FPort for the USR-DR206 is 10.



2. Add Data Points



Enter the data point information according to the actual application.

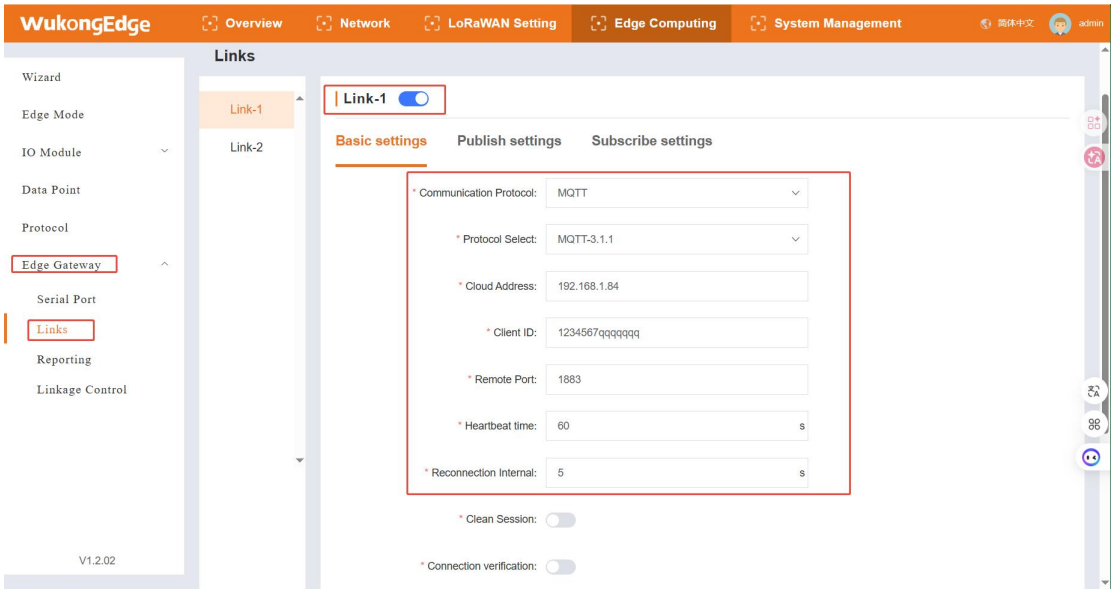


15. Configure the communication link according to the actual application.

Basic Settings: Select the required protocol and communication address based on the server information.

Publish Settings: Keep the default settings in this example.

Subscribe Settings: Keep the default settings in this example.

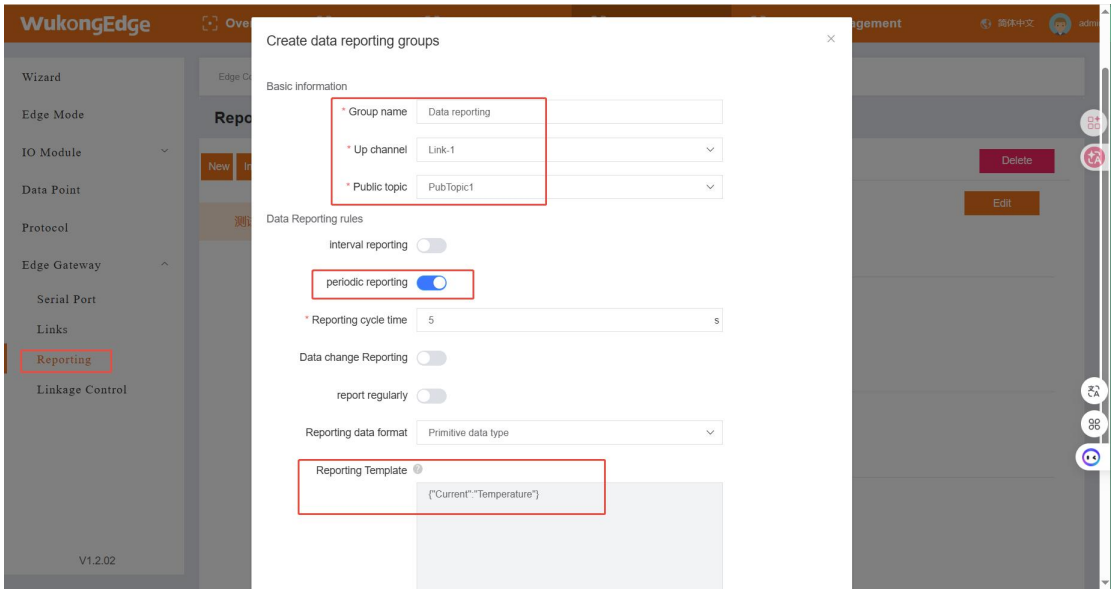


16. Configure Data Reporting.

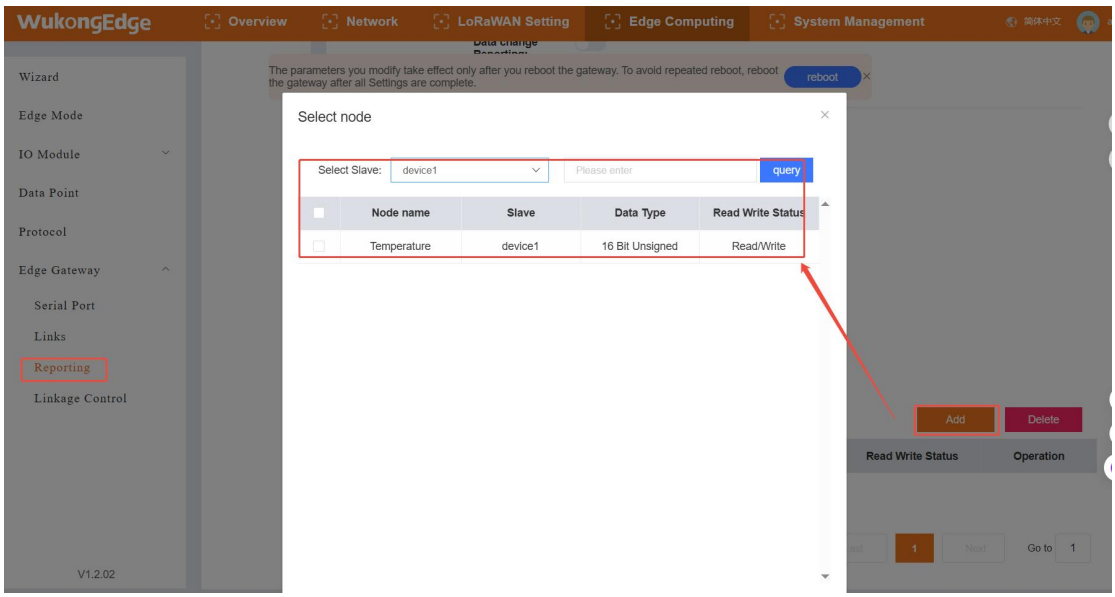
Uplink channel: Select the data link configured above (Link 1).

Publish topic: If multiple topics are available, select the appropriate one. This example uses the default topic.

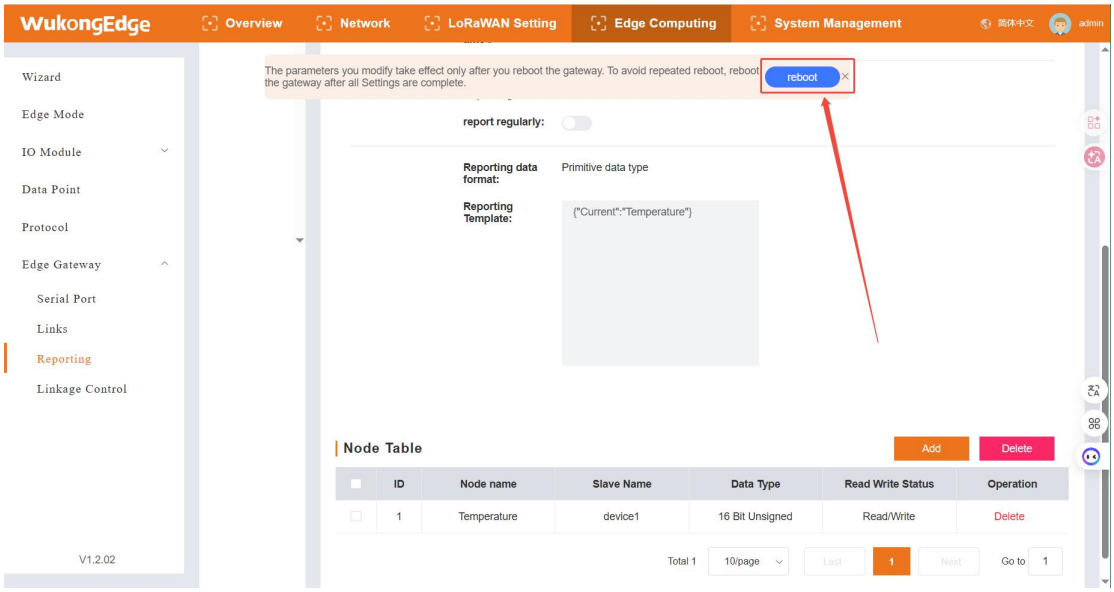
JSON reporting template: Replace Node0101 in the default template with the actual data point name. In this example, the data point is named Temperature, so replace Node0101 with Temperature.



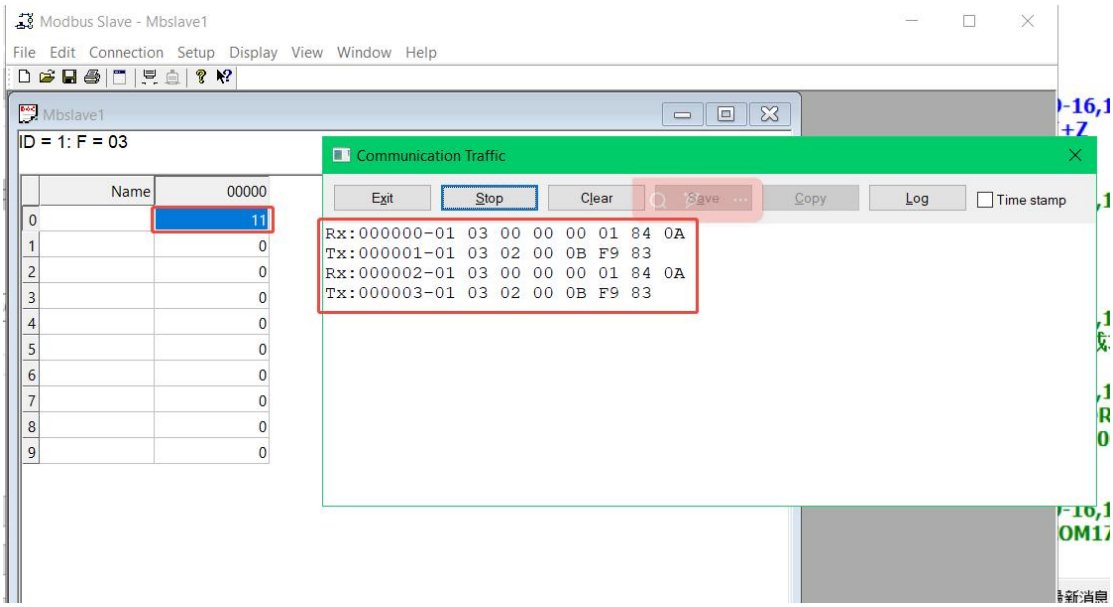
17. Add Data Points.



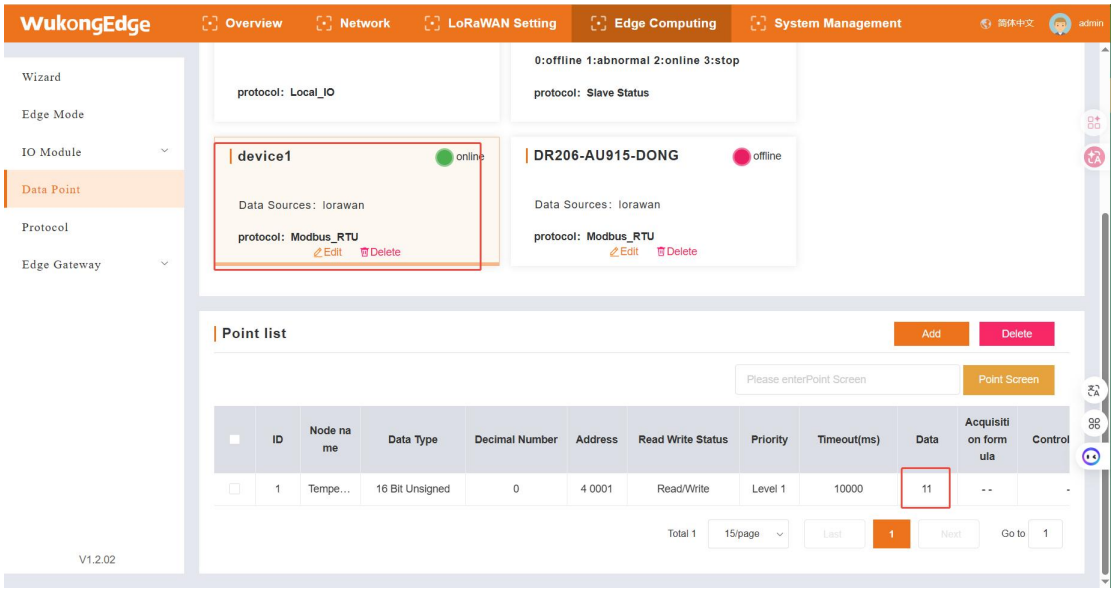
18. After completing the configuration, restart the LoRaWAN gateway.



19. Wait for the device to restart. Open Modbus Slave on the computer to simulate a physical Modbus slave device.



The temperature value has been collected.



20. Open MQTTFX to simulate the application server receiving data. The Modbus Slave data is now reported successfully.

