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Introduction

A fixed RFID UHF Reader with built-in operation data collection function and integrated with the cloud. It is a RAIN RFID Reader with built-in Compact Edition Middleware that can customize information collection (TID, EPC), designated cloud service location, etc., does not need to integrate through PC or workstation. Moreover, it could be applied into various industries such as parking lots, the gate or forklifts in the warehouse to do further management or inventory to increase work efficiency.

This document describes how to connect AL-800 device to Azure IoT Hub. This multi-step process includes:

- Configuring Azure IoT Hub
- Registering your IoT device
- Provisioning your devices on Device Provisioning service
- Invoke direct methods from IoT Hub to device
- Configuring AL-800 tags event

Step 1: Prerequisites

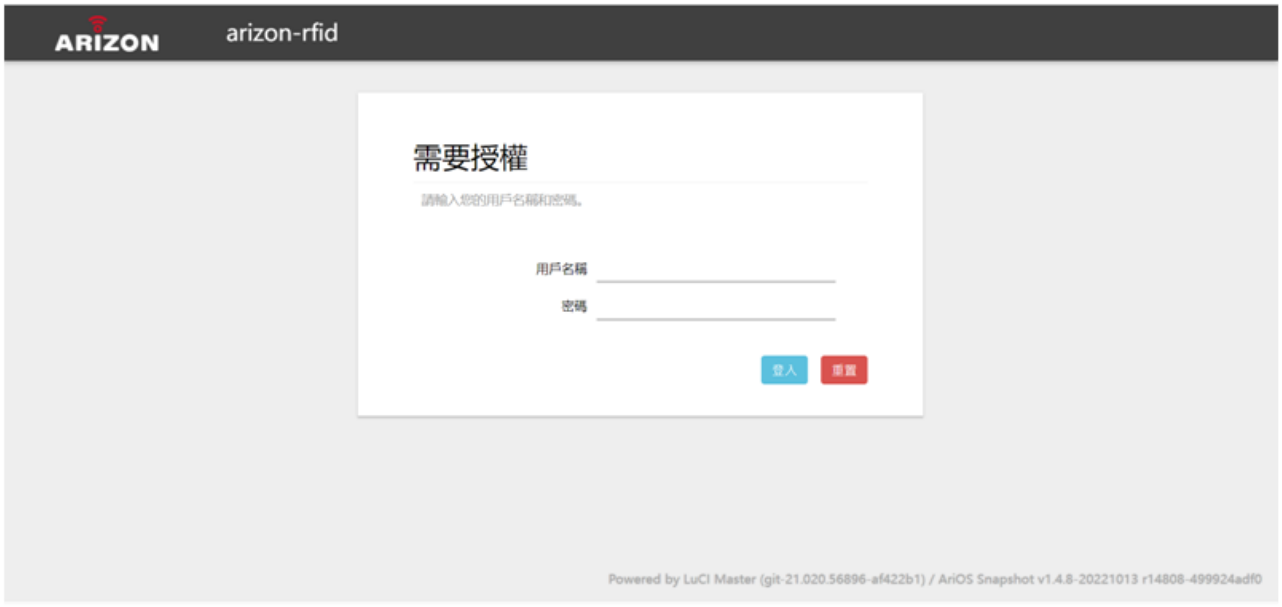
You should have the following items ready before beginning the process:

- Setup your IoT hub
- Provision your device over DPS

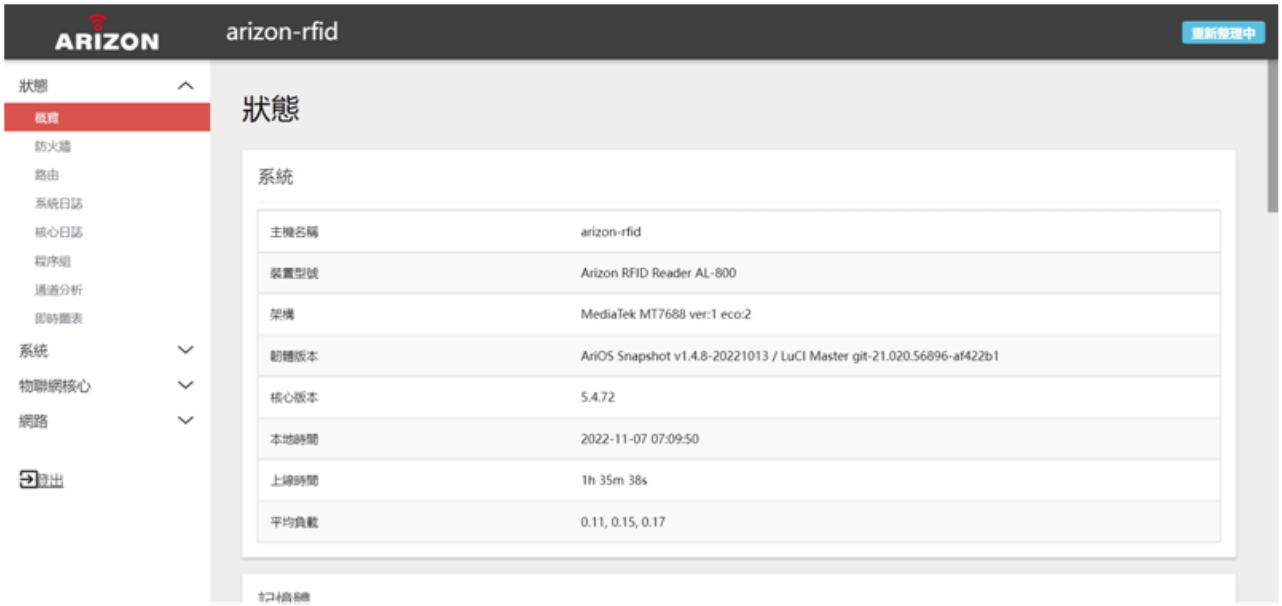
Step 2: Connect to IoT Hub

1. Use the Ethernet cable (Wired Network) to connect AL-800 to your computer.

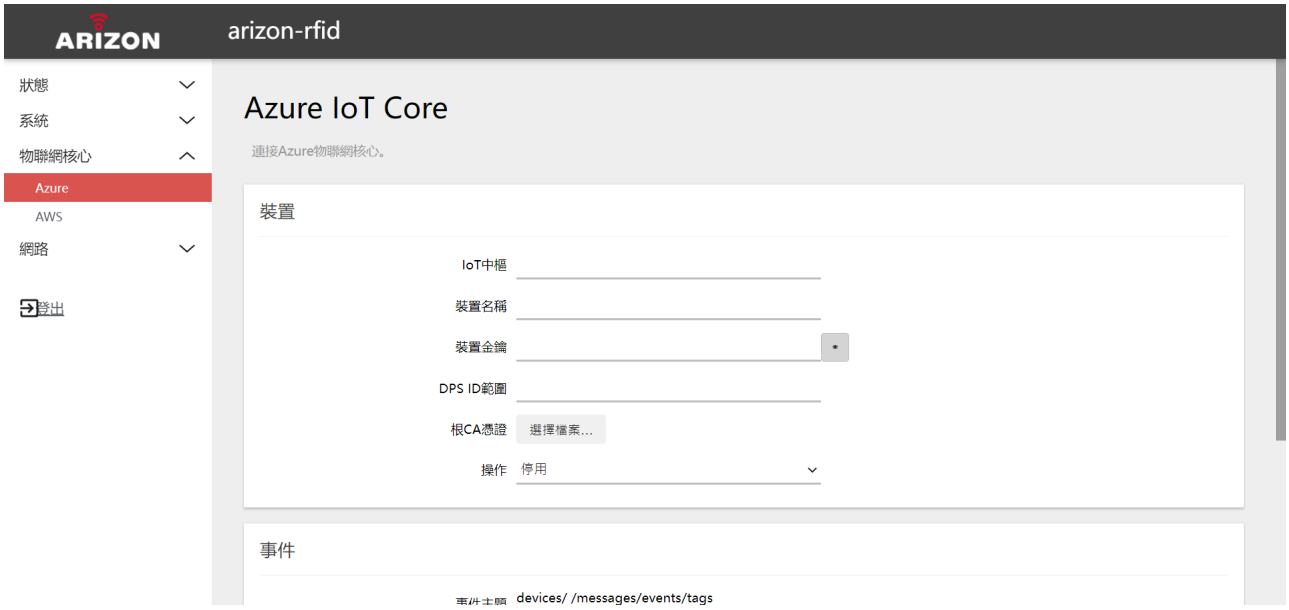
2. URL: https://192.168.50.1/cgi-bin/luci/



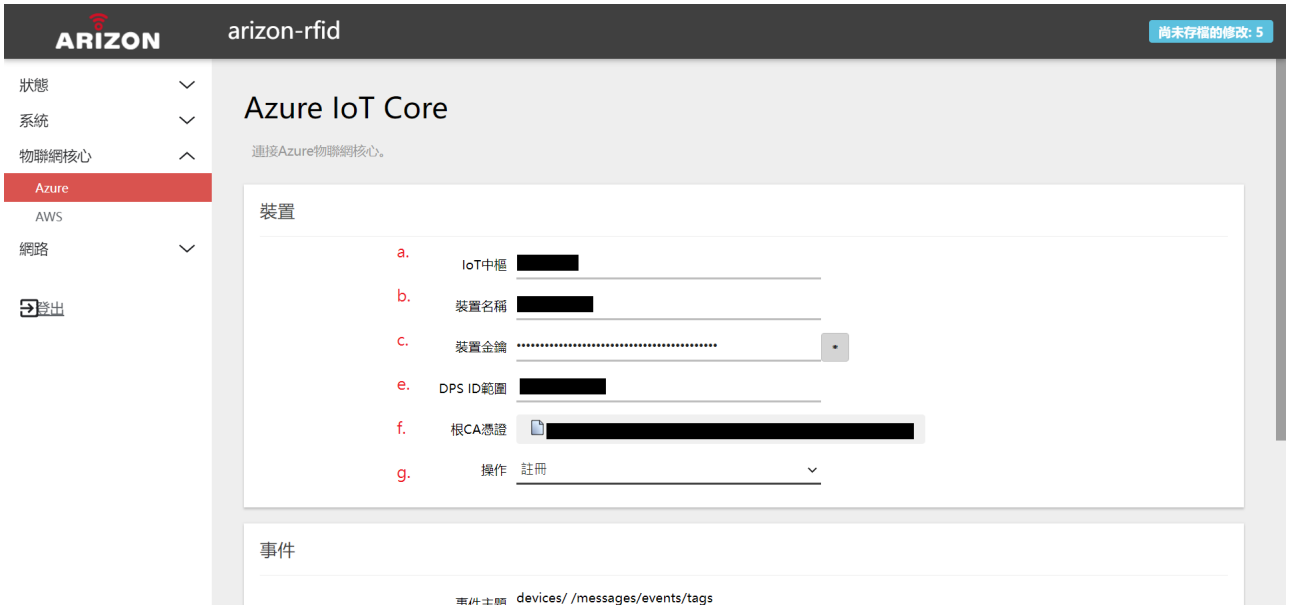
3. Sign in with the user name and password. Welcome to the main page.



4. Choose page IoT Core ➔ Azure



5. Provision your device over DPS(optional)



b. Device ID (required)

c. Device key (required)

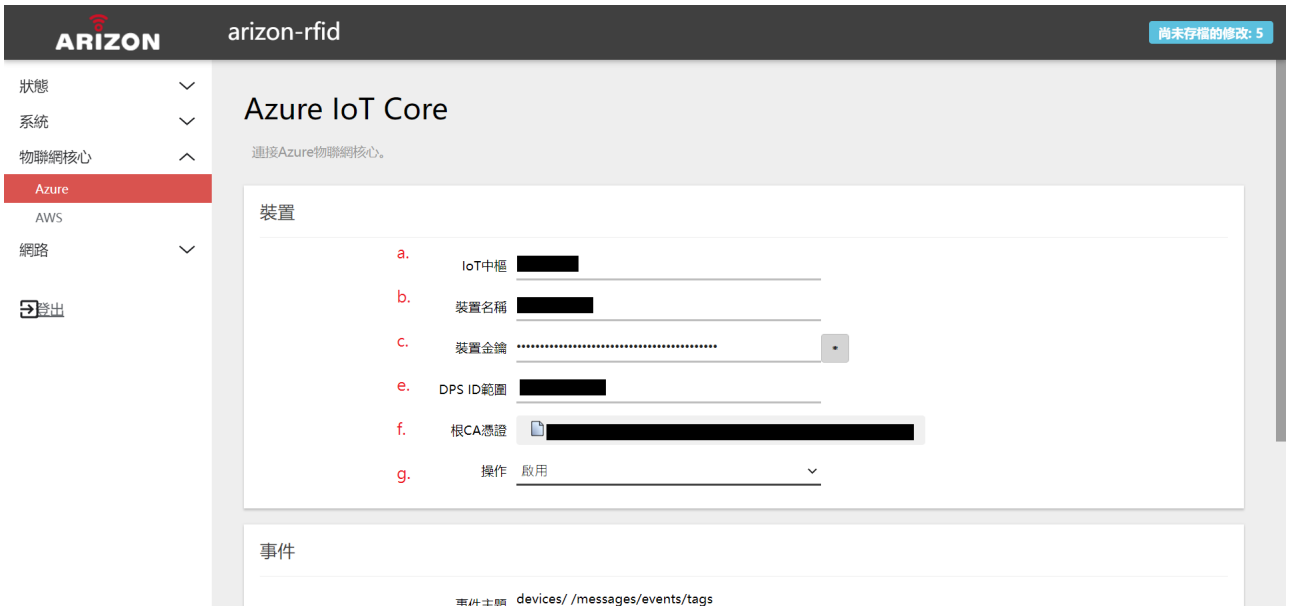
d. DPS scope (required)

e. Root CA certificate (required)

g. Operation (register) (required)

click "Save" and "Save and Apply"

6. Connect to Azure IoT Hub



a. IoT Hub Name (required)

b. Device ID (required)

c. Device key (required)

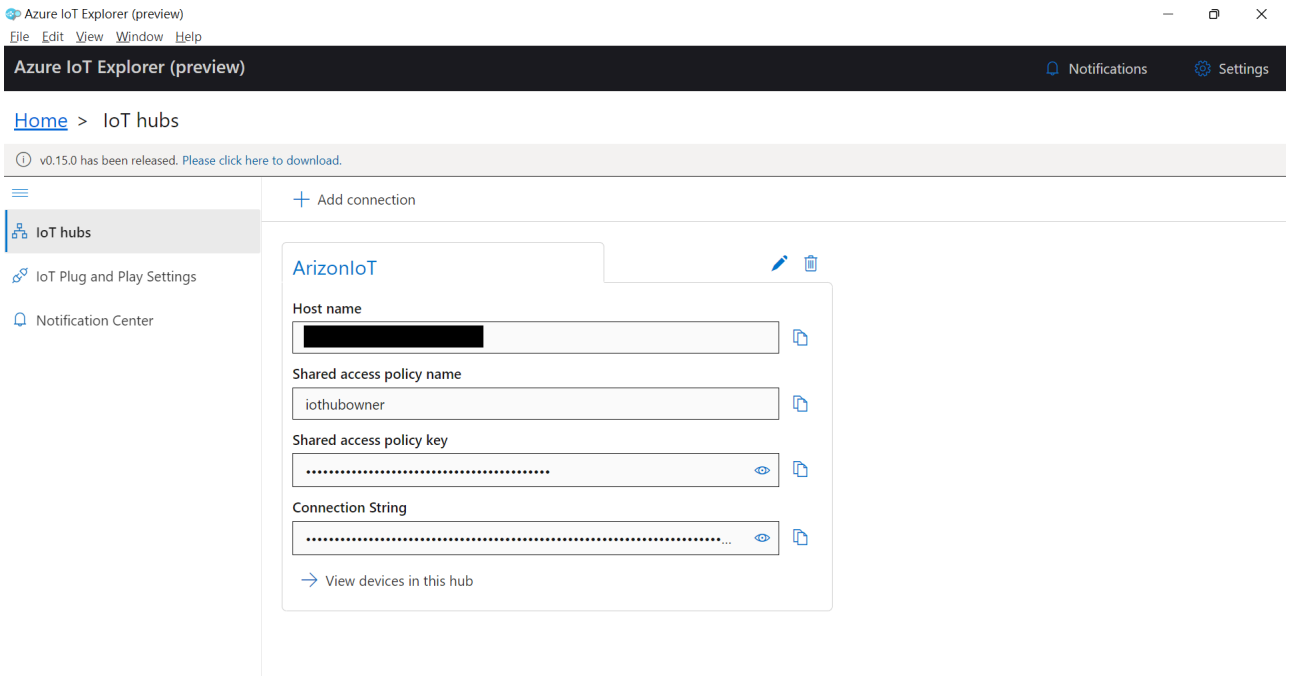
e. Root CA certificate (required)

g. operation (enable) (required)

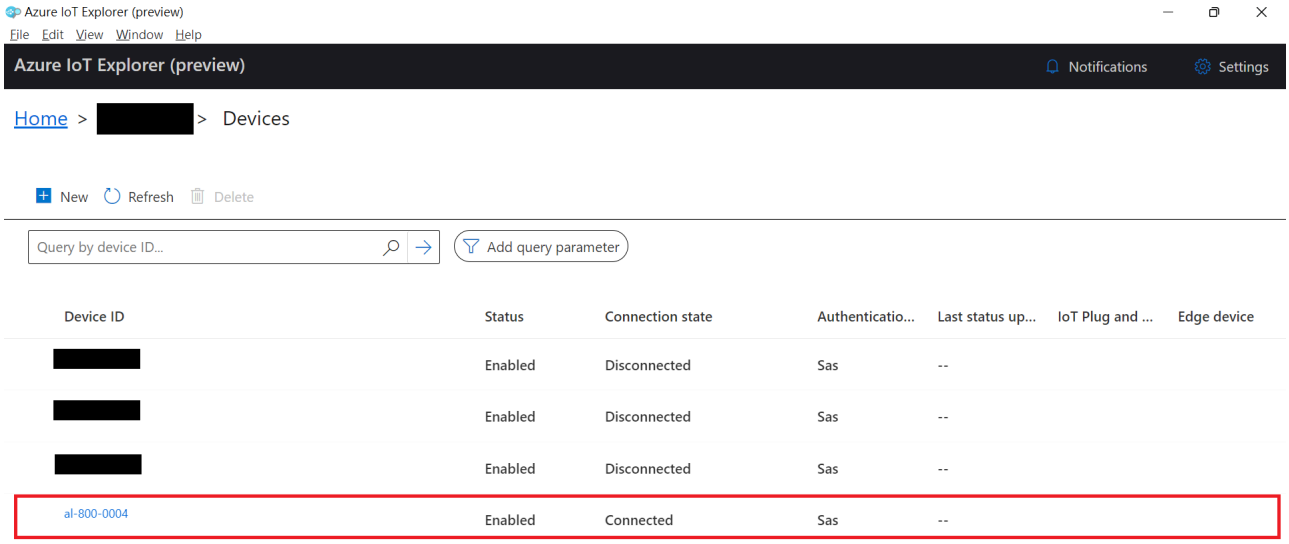
click "Save" and "Save and Apply"

Step 3: Invoke direct methods from IoT Hub to device

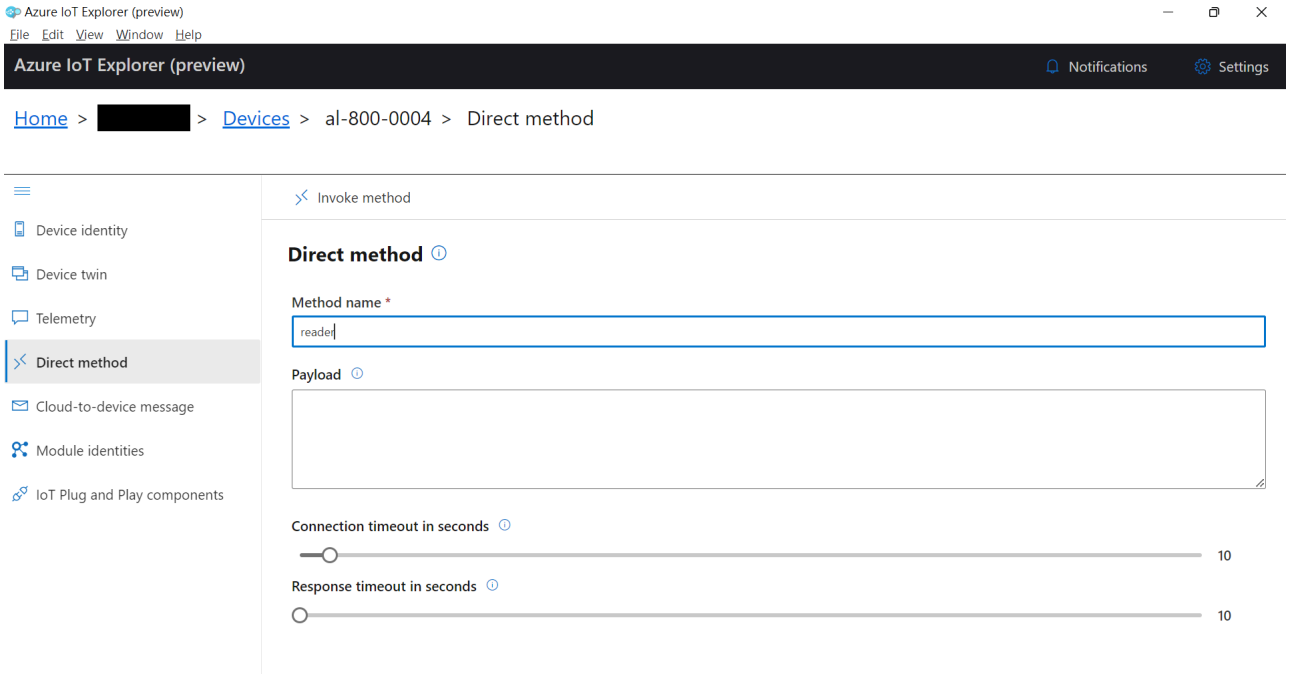
1. Azure IoT Hub.



2. Select target device



3. Choose "Direct method", Method name "reader", Click "Invoke method"



Step 4: Configuring AL-800 tag event

1. Set event configuration. MQTT Topic: devices/AL-800/messages/events/tags

   a. Response interval (second)

   b. Tag count

click "Save" and "Save and Apply"

Step 5 : Additional Links

Please refer to the below link for additional information.

- Manage cloud device messaging with Azure-IoT-Explorer
- Azure SDK
- Configure to connect to IoT Hub
- How to use IoT Explorer to interact with the device