

## Advantech AE Technical Share Document

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<b>Category</b>	<input type="checkbox"/> FAQ <input checked="" type="checkbox"/> SOP	<b>Related OS</b>	N/A
<b>Abstract</b>	How to connect WISE-4471 with WISE-PaaS DataHub?		
<b>Keyword</b>	WISE, NB-IoT, WISE-PaaS, DataHub		
<b>Related Product</b>	WISE-4471, WISE-4671		

### ■ Problem Description:

This document shows that how to connect WISE-4471 with WISE-PaaS DataHub, and query data result. This document is using WISE-PaaS4.0.



Figure 1. Topology of this scenario.

### Configuration on WISE-PaaS 4.0

Step1. Log-in WISE-PaaS portal

- <https://portal-catalog-ensaas.sa.wise-paas.com/>

Step 2. Go Management Portal.

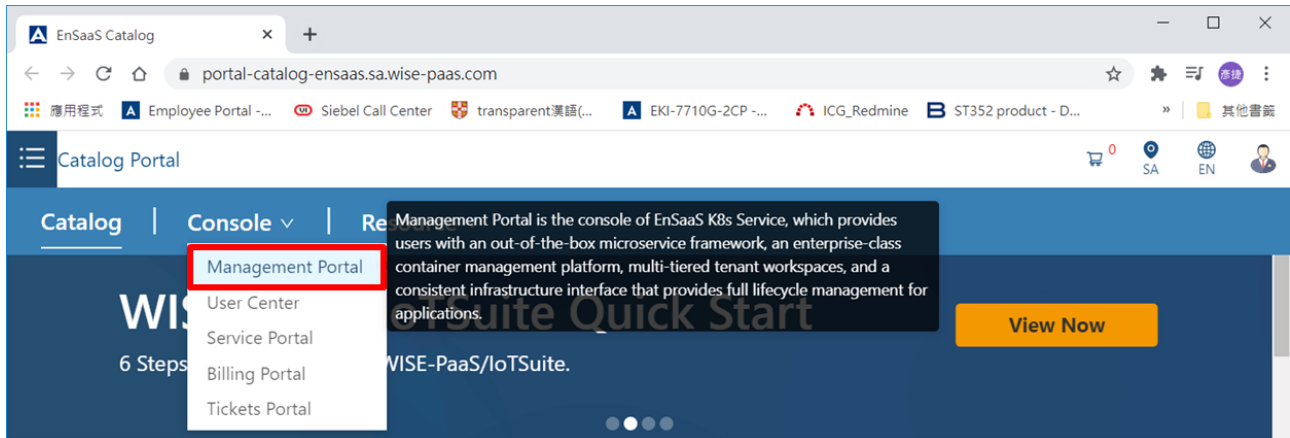


Figure 2. Management Portal.

Step 3. Go Ingress tab which is under Router management.

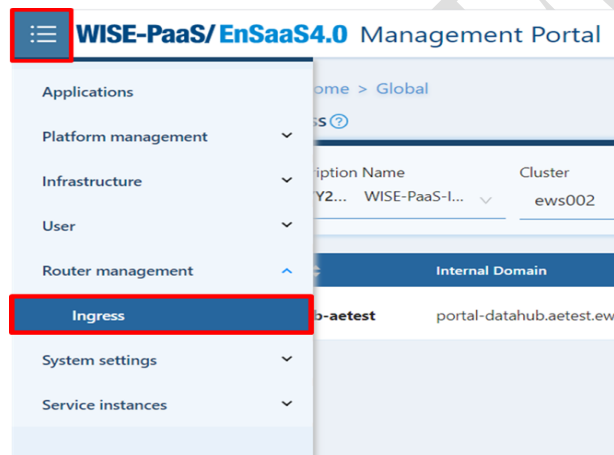


Figure 3. Enter Ingress page.

Step 4. Enter DataHub domain by clicking the address in the right hand side.

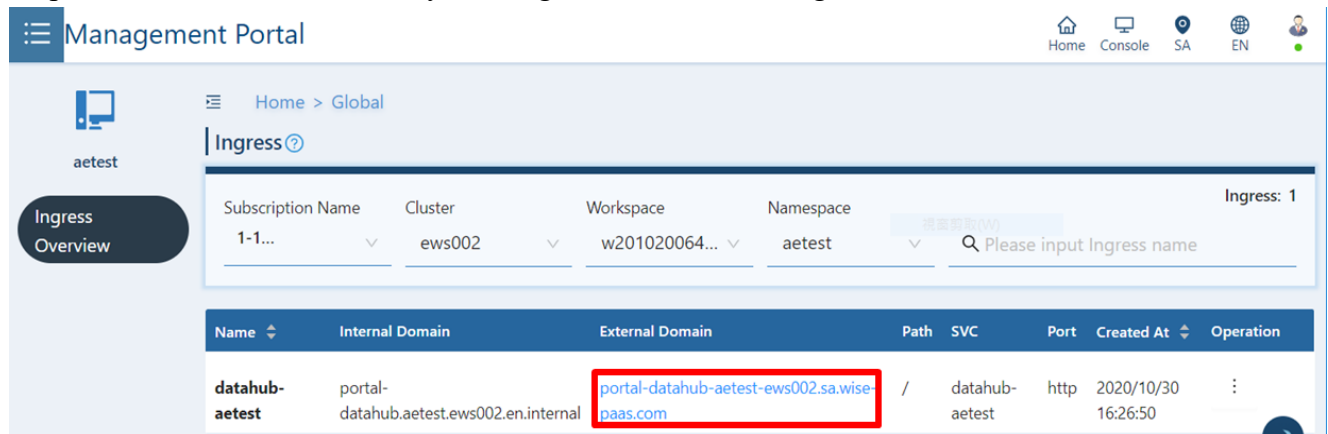


Figure 4. Enter DataHub.

Step 5. Create a new project and name a the project.

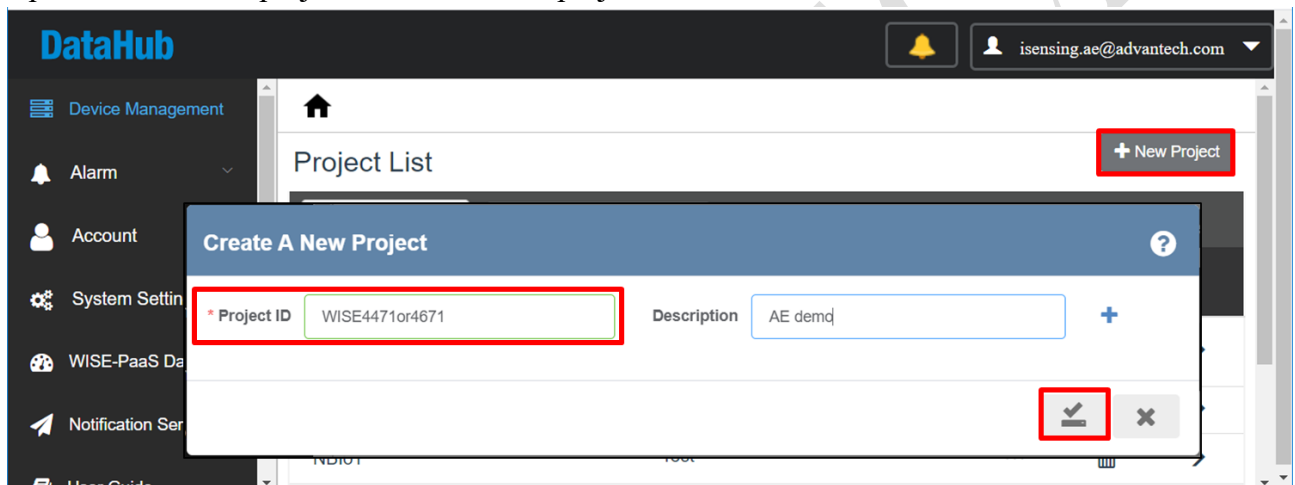


Figure 5. Create a new project

Step 6. After the new project is created, enter the project by clicking project row.

Project ID	Description	Detail	Delete
Advantech		...	>
Luke1113		...	>
NBIoT	Test	...	>
SimonTest		...	>
Test1112	WISE4471	...	>
WISE4471or4671	AE demo	...	>

Figure 6. Go and set a new node for this new project.

Step 7. Create a new node and name the node and choose “device” option.

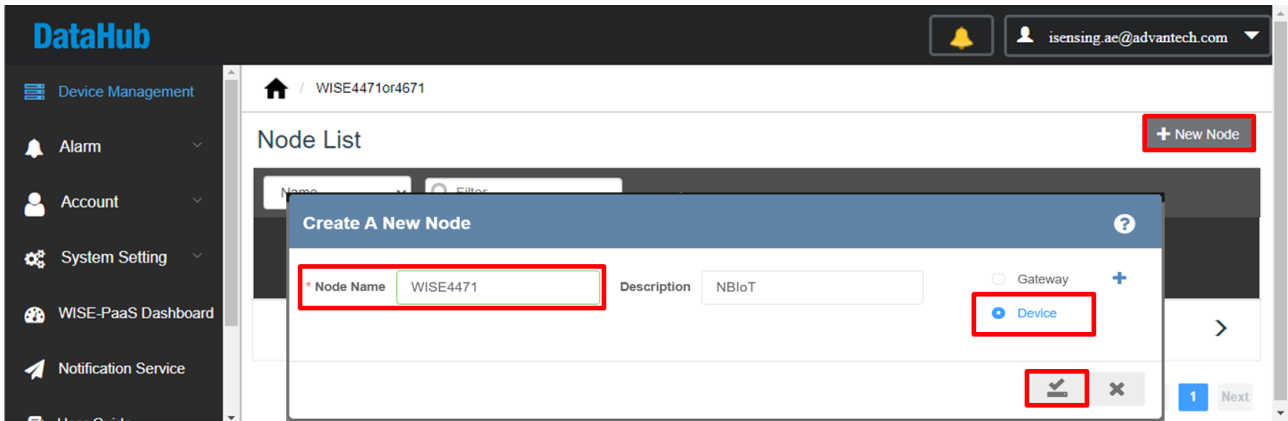


Figure 7. Create a new node.

Step 8. Once the node is built, please remember the “Node ID” and “Credential Key”. The two information will be used for following steps.

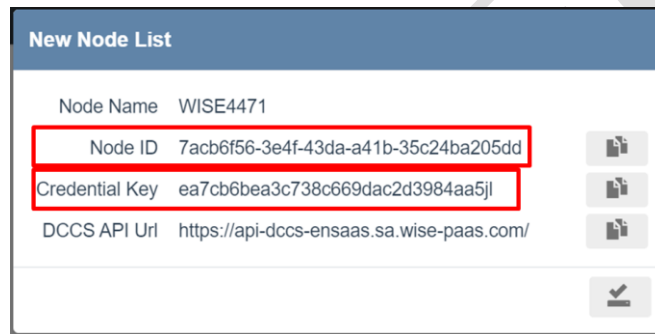


Figure 8. Remember Node ID and Key of the new node.

Step 9. Please go back to Management Portal page.

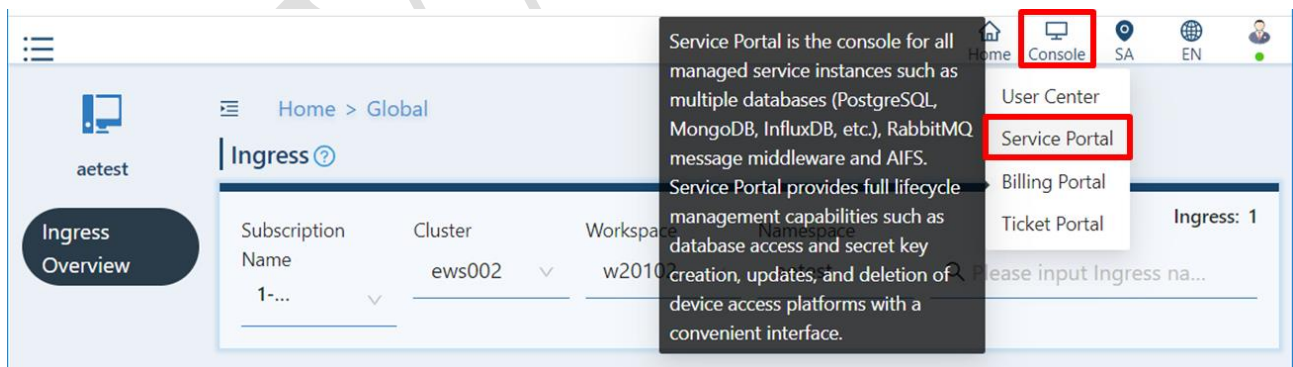


Figure 9. Service Portal.

Step 10. After get to Service Portal, find the rabbitmq on the Instance list and go to Secret Management by clicking the tab as shown.

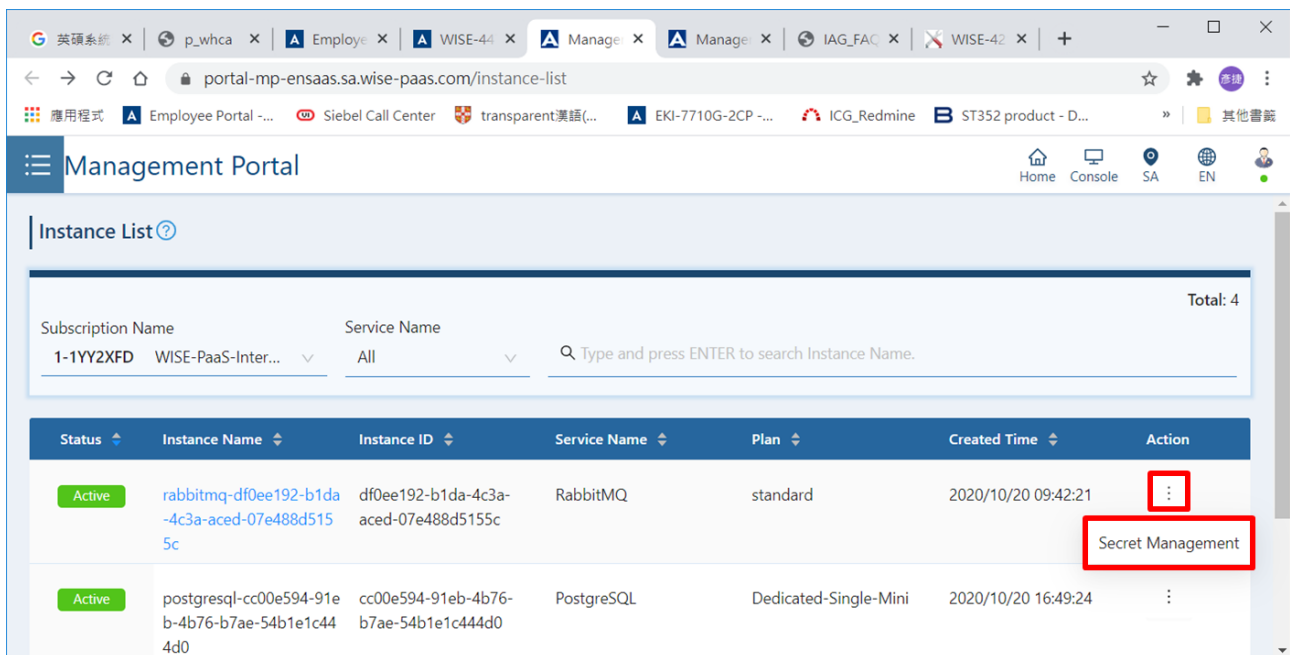
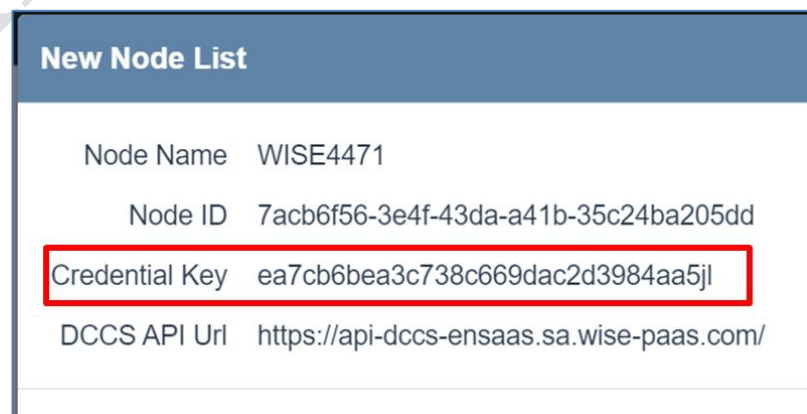
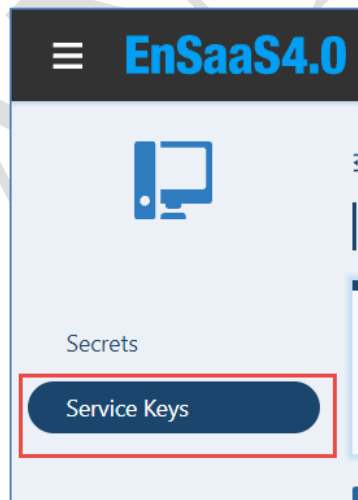


Figure 10. Secret Management.

Step 11. Find the same Credential Key which is displayed after the new node is created.



WISE-PaaS/EnSaaS4.0 Management Portal

Status	Service Key Name	Description	Created Time	Action
Enabled	c0afba7278cab13218c610df723cae51		2020/11/12 18:02:32	
Enabled	0418d26db07917a16e456eae2cf143fd	WISE4060-test	2020/11/17 14:40:35	
Enabled	6d1994033a1709a764eae0c0f66956u		2020/11/3 10:27:13	
Enabled	f9bc1749169279736f9633fe57be12jp	datahub_node_1ba705d5-f93e-42e8-8416-ccae6471913b	2020/11/3 10:28:17	
Enabled	d8abd449bdcc678d3f31458567b731d		2020/11/17 11:19:04	
Enabled	772a0ca59d77b521955e433ed5c2ale	datahub_node_2b9eb314-9d5a-4c9f-b3dd-893569c53bb3	2020/11/13 14:01:09	
Enabled	6644371d0983b44794e2341b335cc074	datahub_node_3c1be4e9-2567-44d1-a2e8-49ed576e6e2	2020/11/3 14:17:23	View
Enabled	c74cc031605936118c0a2194b06bed8q	WISE4060-test	2021/1/6 14:40:43	Edit
Enabled	ea7c9f8eac738cd6fde2d3f984aa0j	datahub_node_7acbf656-3e4f-43da-a41b-35c24ba205dd	2021/2/3 14:07:14	Disable
				Delete

Figure 11. Find the new node with its Key and get the information of it.

Step 12. Find “coap” connecting information in the pop-out document.

```
{
  "serviceName": "RabbitMQ",
  "serviceHost": "rabbitmq-001-pub.sa.wise-paas.com",
  "serviceKeyName": "19aac192d8a98f157c2417d63a50d067",
  "serviceKeyGuid": "8b6b98e7-bd09-4cfd-8ebc-5c511188d154",
  "org": "",
  "space": "",
  "serviceInstanceName": "rabbitmq-df0ee192-b1da-4c3a-aced-07e488d5155c",
  "serviceInstanceId": "df0ee192-b1da-4c3a-aced-07e488d5155c",
  "subscriptionId": "405bdf8ca619d97aa8d95229a899f9c9",
  "credential": {
    "dashboard_url": "http://rabbitmq-001-pub.sa.wise-paas.com:15672/login/B1Q0bXwxJjy0/B3EGudJj5XIyRre8ZcE1",
    "externalHosts": "rabbitmq-001-pub.sa.wise-paas.com",
    "hostname": "rabbitmq-001.sa.wise-paas.com",
    "hostnames": [
      "rabbitmq-001.sa.wise-paas.com"
    ]
  },
  "coap": {
    "host": "rabbitmq-001.sa.wise-paas.com",
    "hosts": [
      "rabbitmq-001.sa.wise-paas.com"
    ],
    "password": "B3EGudJj5XIyRre8ZcE1",
    "port": 5683,
    "ssl": false,
    "uri": "coap://rabbitmq-001-pub.sa.wise-paas.com/ps/Jpe02239Boy8/amq.topic/",
    "uris": [
      "coap://rabbitmq-001-pub.sa.wise-paas.com/ps/Jpe02239Boy8/amq.topic/"
    ],
    "username": "B1Q0bXwxJjy0",
    "vhost": "Jpe02239Boy8"
  }
},
```

Figure 12. Find “coap”.

Step 13. According to last step, put the relative information to WISE-4471 via WISE studio. Please refer to Configuration on WISE studio.

## Configuration on WISE Studio

Step 1. Install WISE Studio

— [Click me to download SW.](#)

Step 2. Make sure the WISE module can receive signal from a Telecom.

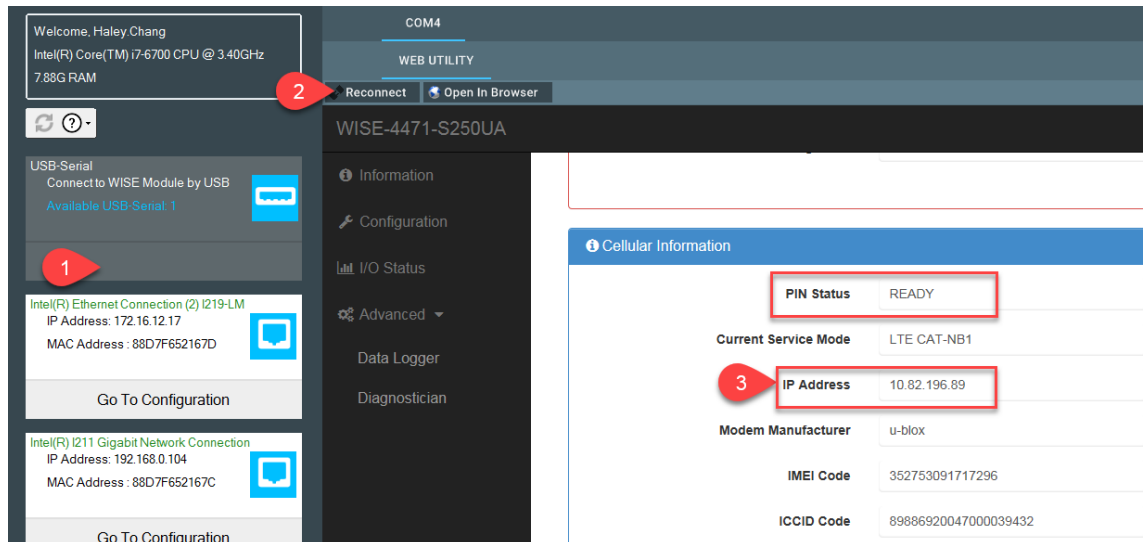
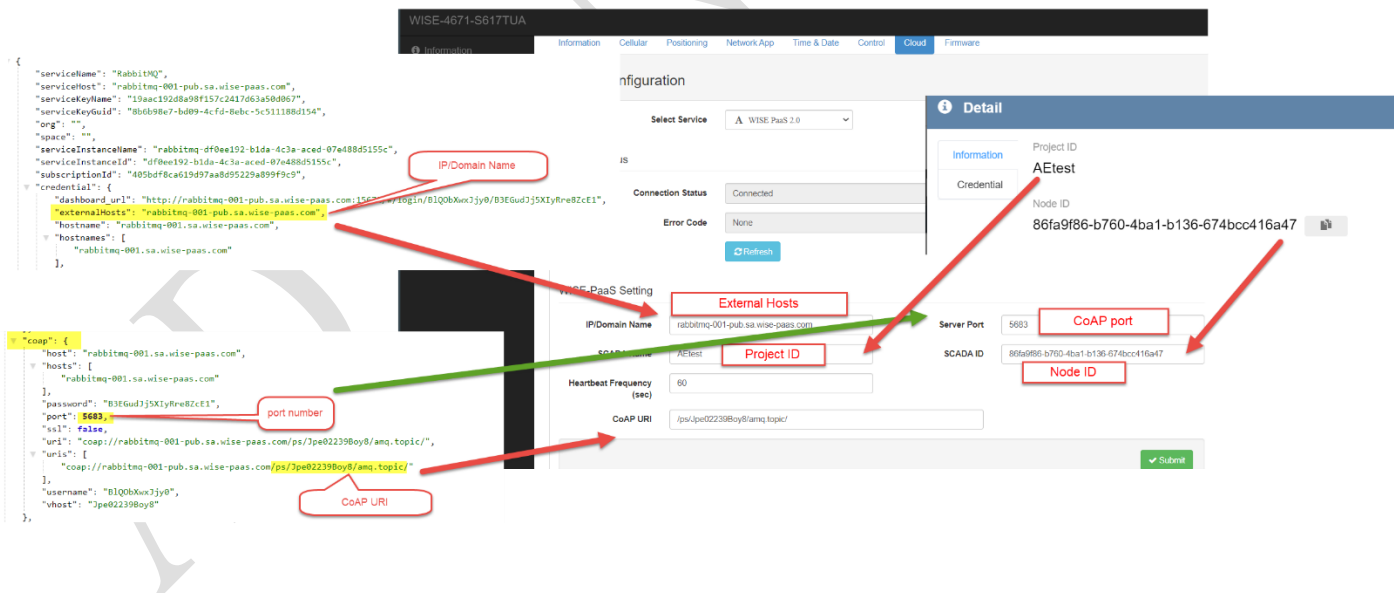


Figure 13. Check the device status via WISE studio.

Step 3. Select “WISE-PaaS” service in CLOUD tab.

- IP/Domain name: external host
- Server port: port of server
- SCADA name: Project ID
- SCADA ID: Node ID
- CoAP URI: /ps/(vhost)/amq.topic/



WISE-4671-S617TUA

Information Cellular Positioning Network App Time & Date Control **Cloud** Firmware

### Cloud Configuration

Select Service: A WISE PaaS 2.0

Current Status

Connection Status: Connected

Error Code: None

Refresh

WISE-PaaS Setting

External Hosts

IP/Domain Name: rabbitmq-001-pub.sa.wise-paas.com

Server Port: 5683

CoAP port

SCADA Name: AETest

Project ID

SCADA ID: 86fa9f86-b760-4ba1-b136-674bcc416a47

Node ID

Heartbeat Frequency (sec): 60

CoAP URI: /ps/Jpe02239Boy8/amq.topic/

Submit

Figure 14. Configure the device with Figure 12.

Results of receiving data.

- WISE-4471 support plug & play function.
  - Device and channel tags will be built automatically.
  - Data will be uploaded while change of status.

Browser tabs: portal-datahub-aetest-ews002.sa.wise-paas.com, Employee Portal - Home, WISE-4471 - 研華科技 Advantech, Management Portal, Advantech | WISE-PaaS Cloud Manager

Browser address bar: portal-datahub-aetest-ews002.sa.wise-paas.com/#/CloudManager/DeviceManagement/WISE4471/WISE4471-WISE4471-S250UA\_1730208/projectId=WISE4471or46718node...

Browser tabs: Employee Portal, Siebel Call Center, transparent, ITO-77100-2CP, ICG Redmine, ST352 product - D..., Support Cellular r..., Blaster Online - Sp...

DataHub

Device Management

Alarm

Account

Account Setting

Role Setting

System Setting

WISE-PaaS Dashboard

Notification Service

User Guide

API Document

Version: v2.0.8

### Tag List

Tag Name	Tag Type	Description	Value	Timestamp	Actions
062-DI0	Discrete		0	2021-02-03 17:57:13	
062-DI1	Discrete		0	2021-02-03 17:57:13	
062-DI2	Discrete		0	2021-02-03 17:57:13	
062-DI3	Discrete		0	2021-02-03 17:57:13	
062-DI4	Discrete		0	2021-02-03 17:57:13	
062-DI5	Discrete		0	2021-02-03 17:57:13	
062-DO0	Discrete		1	2021-02-03 17:57:13	
062-DO1	Discrete		0	2021-02-03 17:25:15	
W4471_0208-p1v06r00c...	Analog		0	2021-02-03 17:25:15	
W4471_0208-p1v06r00d...	Analog		0	2021-02-03 17:25:15	

### IO Status

DI DO COM1

Status

Configuration

Channel	Mode	Status
0	DO	ON
1	DO	OFF

Figure 15. Check data in the new node.