

Advantech AE Technical Share Document

| | | | |
|------------------------|--|-------------------|--------------|
| Date | 2021/10/20 | SR# | 1-3917109311 |
| Category | <input type="checkbox"/> FAQ <input checked="" type="checkbox"/> SOP | Related OS | N/A |
| Abstract | How to connect WISE-4471 with WISE-PaaS DataHub? | | |
| Keyword | WISE, NB-IoT, WISE-PaaS, DataHub | | |
| Related Product | 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.

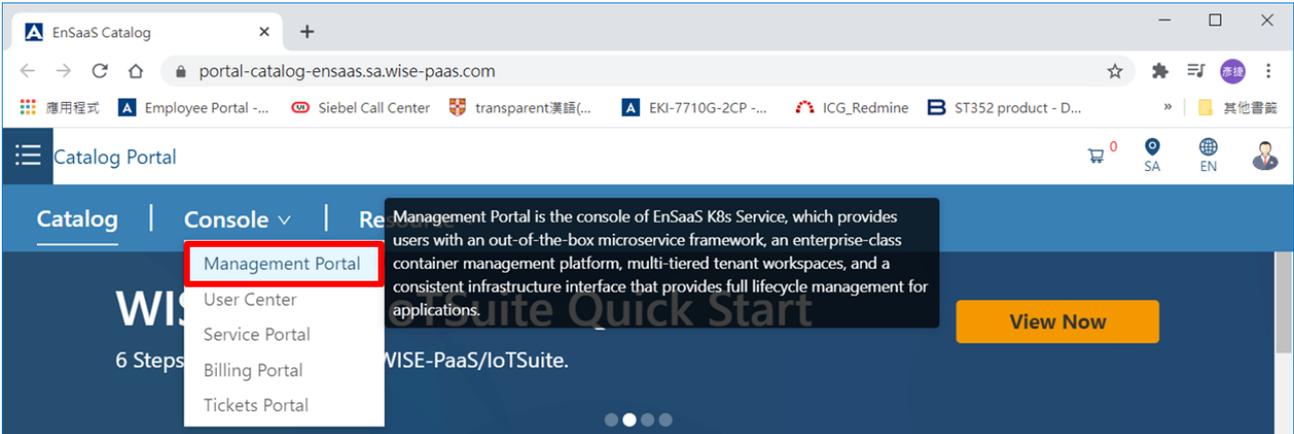


Figure 2. Management Portal.

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

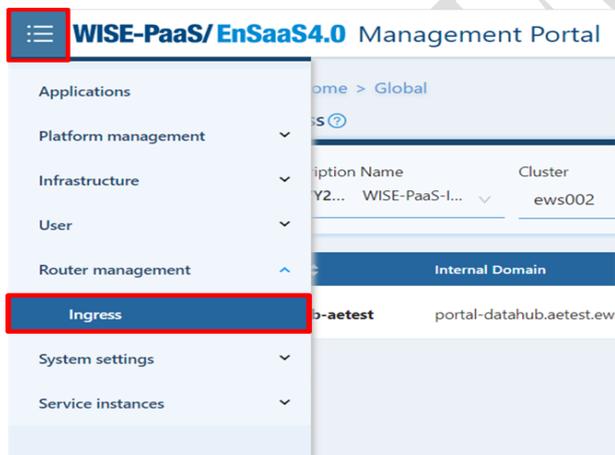


Figure 3. Enter Ingress page.

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

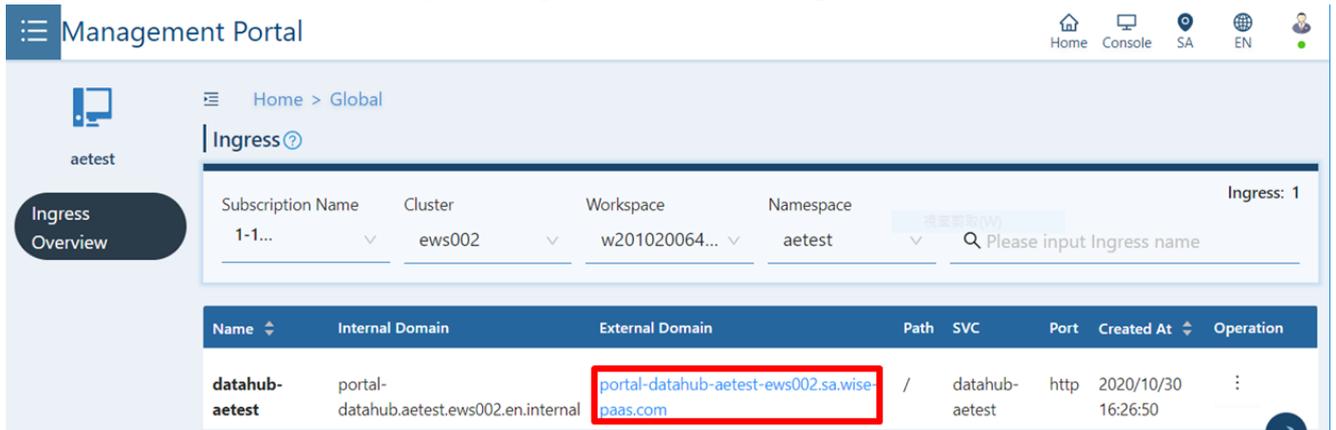


Figure 4. Enter DataHub.

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

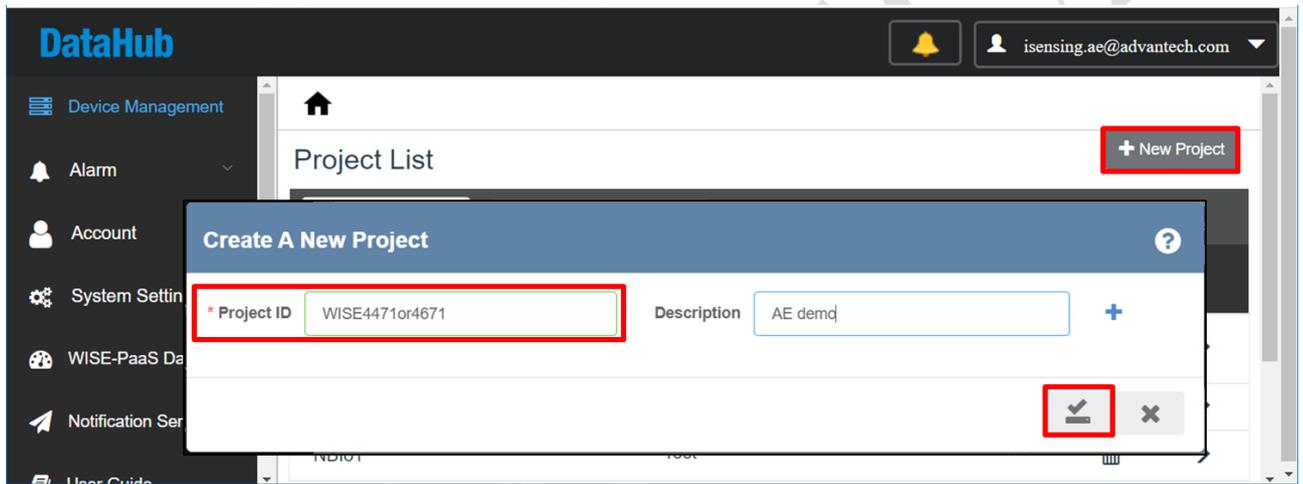


Figure 5. Create a new project

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

| Project ID | Description | Detail | Delete |
|----------------|-------------|--------|--------|
| Advantech | | ... | 🗑️ > |
| Luke1113 | | ... | 🗑️ > |
| NBloT | 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.

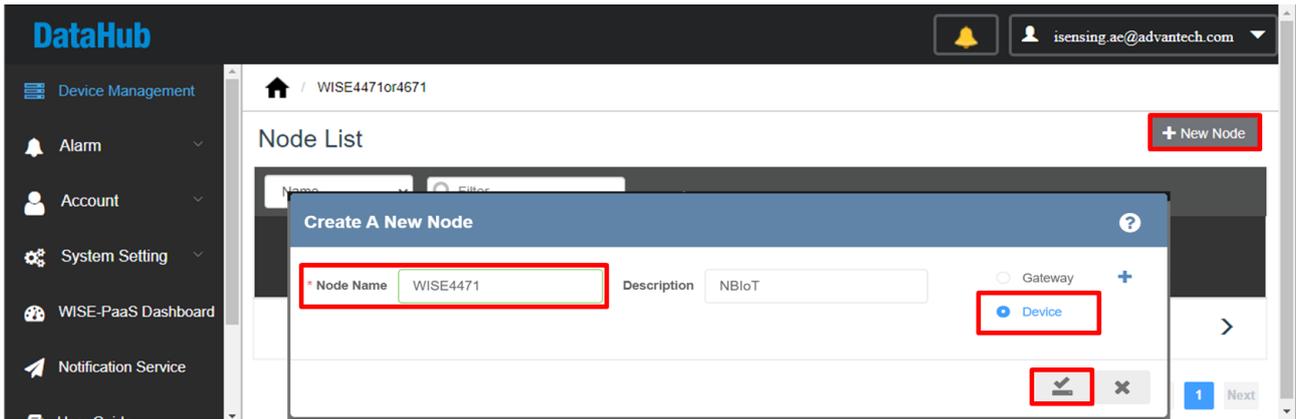


Figure 7. Create a new node.

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

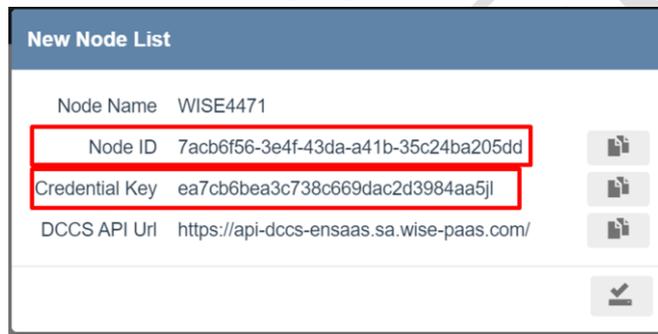


Figure 8. Remember Node ID and Key of the new node.

Step 9. Please go back to Management Portal page.

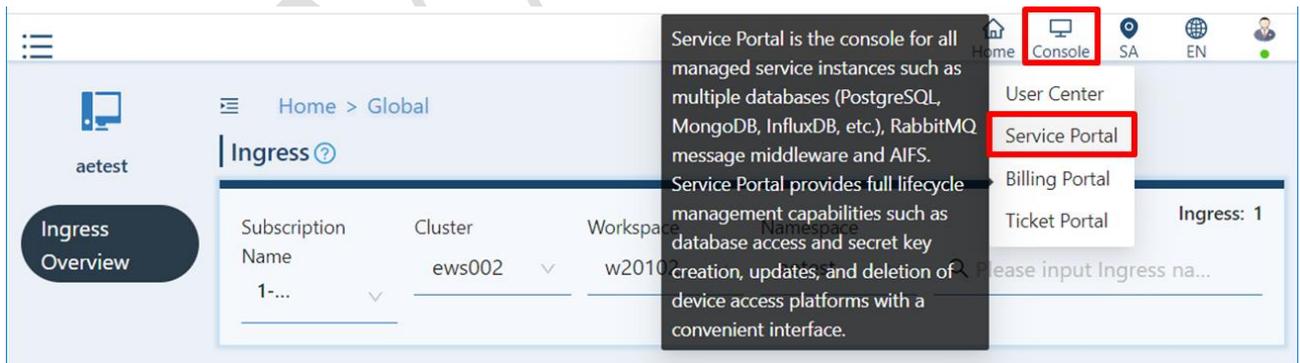


Figure 9. Service Portal.

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.

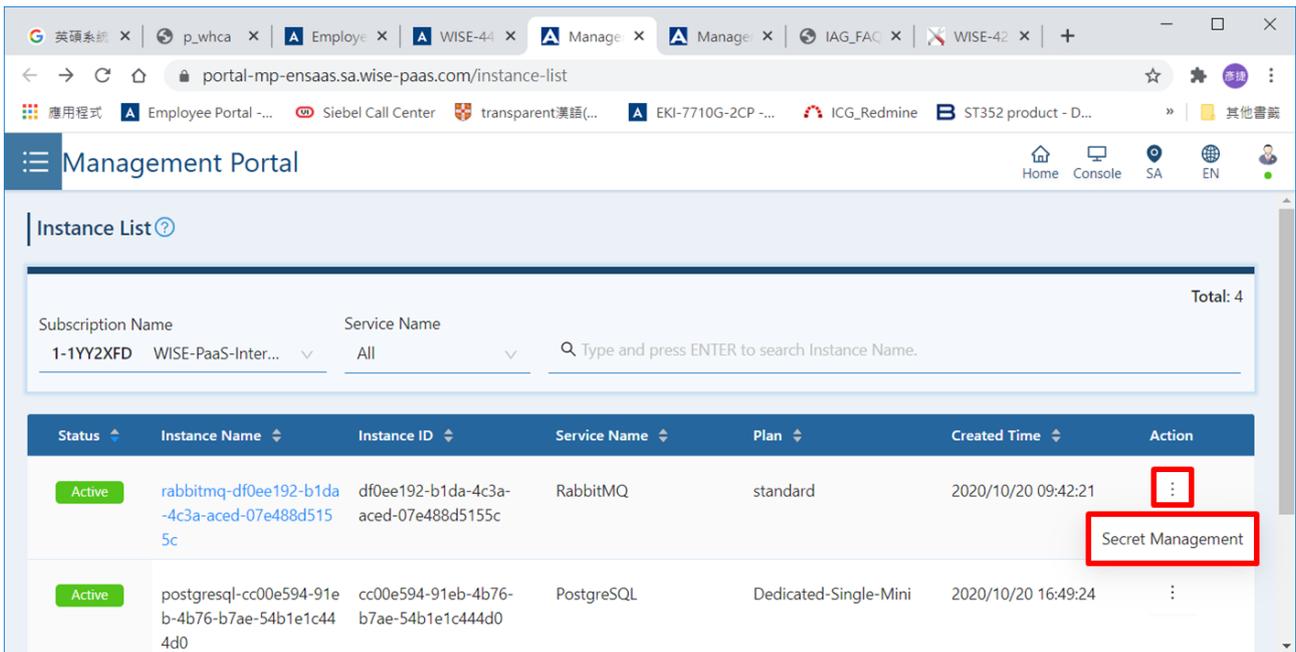
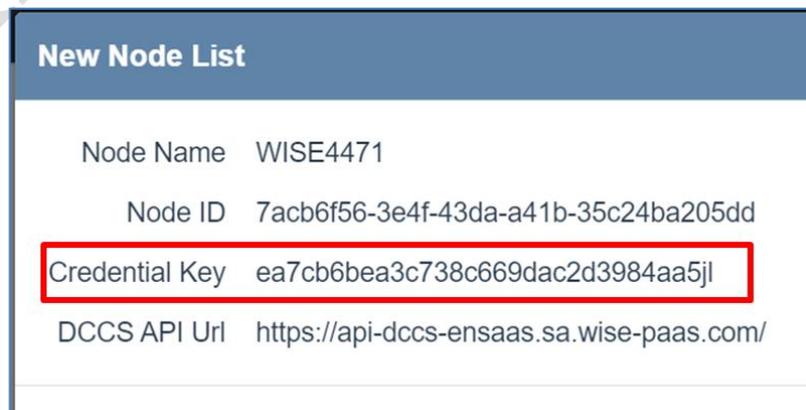
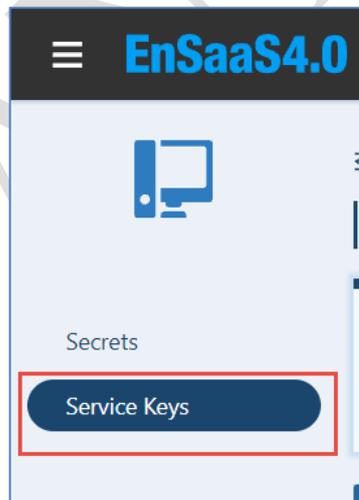


Figure 10. Secret Management.

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



| 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 | 6d1994033a1709a764eae0c0f669956u | | 2020/11/3 10:27:13 | ⋮ |
| Enabled | f9bc17491692797369633657be12jp | datahub_node_1ba705d5-f93e-42e8-8416-ccae471913b | 2020/11/3 10:28:17 | ⋮ |
| Enabled | d8abd449bdcc678d4931458567b731d | | 2020/11/17 11:19:04 | ⋮ |
| Enabled | 772a0cad59d77b521955e433ed5c2ale | datahub_node_2b9eb314-9d5a-4c9f-b3dd-893569c53bb3 | 2020/11/13 14:01:09 | ⋮ |
| Enabled | 6644371d0983b44794e2341b335cc074 | datahub_node_3c1be4e9-2567-44d1-a2e8-49ed4576e6e2 | 2020/11/13 14:17:23 | ⋮ |
| Enabled | c74cc031605936118c0a2194b06bed8q | WISE4060-test | 2021/1/6 14:40:43 | ⋮ |
| Enabled | ea7cb0ba3c738cf69de2d3984aa5j | datahub_node_7acbf656-3e4f-43da-a41b-35c24ba205dd | 2021/2/3 14:07:14 | ⋮ |

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.

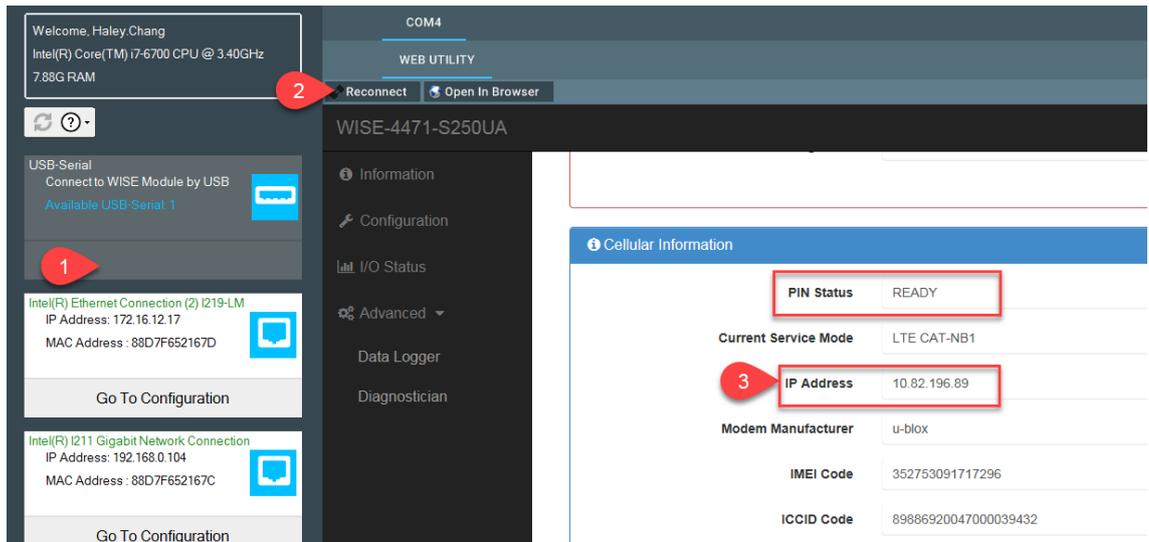
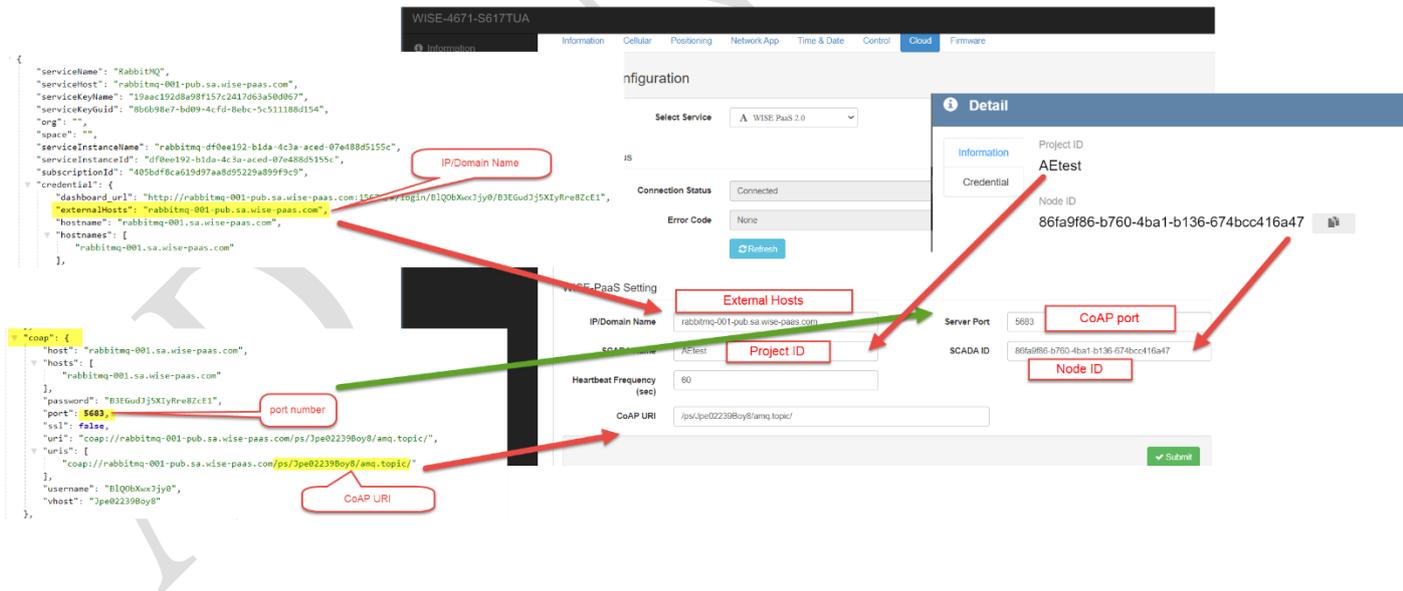


Figure 13. Check the device status via WISE studio.

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/



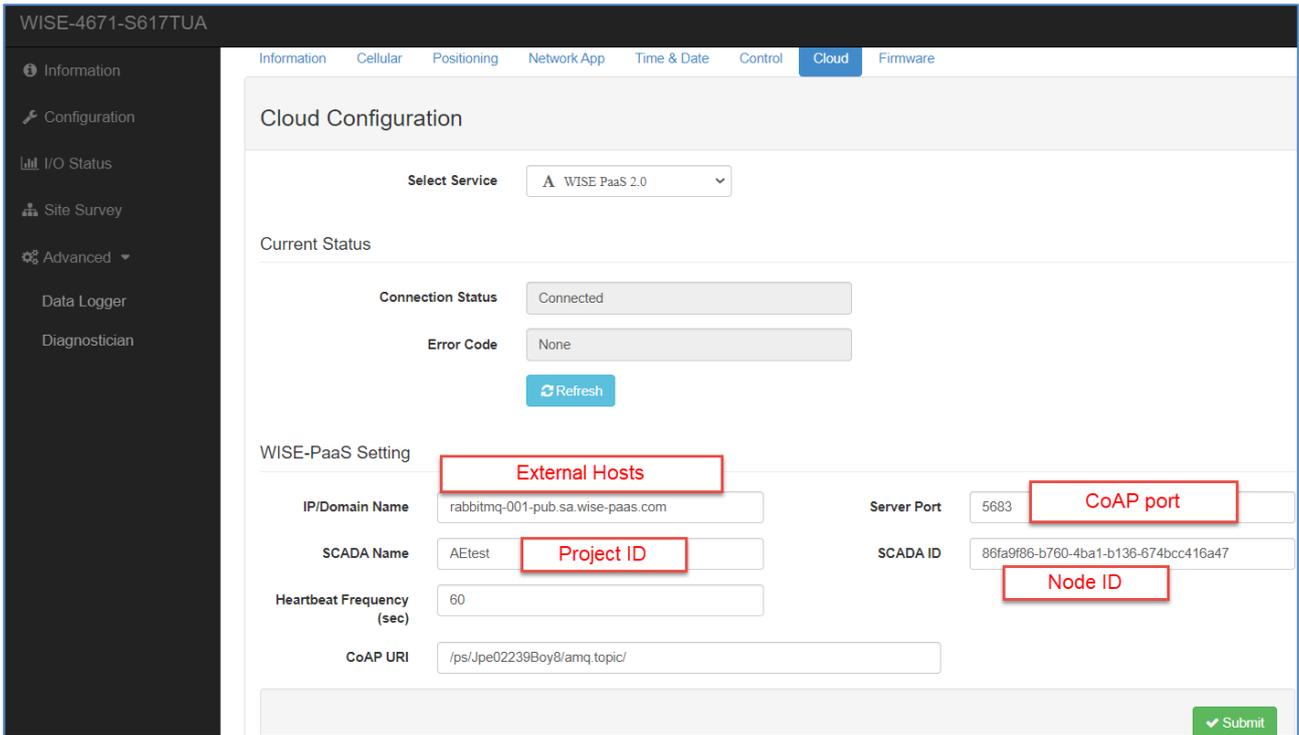


Figure 14. Configure the device with Figure 12.

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.

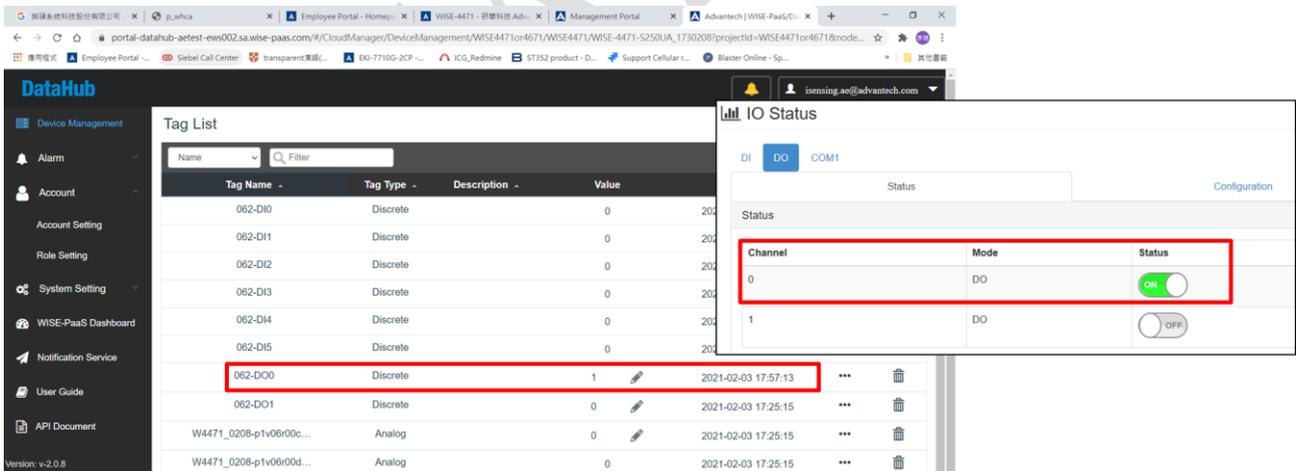


Figure 15. Check data in the new node.