

Advantech AE Technical Share Document

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

■ **Problem Description:**

This document shows how to connect WISE-4471 with WISE-PaaS, and query data result.



Figure 1. Topology of this scenario.

■ **Brief Solution - Step by Step:**

SOP video: <https://bit.ly/2TkDQbg>

Table of WISE-PaaS 2.0 cloud service on WISE-4471.

Parameters	Default	Value
Cloud Server Select	Disable	
Host Name	NA	Max. characters: 64
Host port	0	Value: 1~65535
SCADA Name	NA	Max. characters: 64
SCADA ID	NA	Max. characters: 64
CoAP URI	NA	Max. characters: 100

Configuration on WISE-PaaS

Step1. Log-in WISE-PaaS portal

- <https://portal-technical.wise-paas.com/index.html>

Step 2. Go to management portal

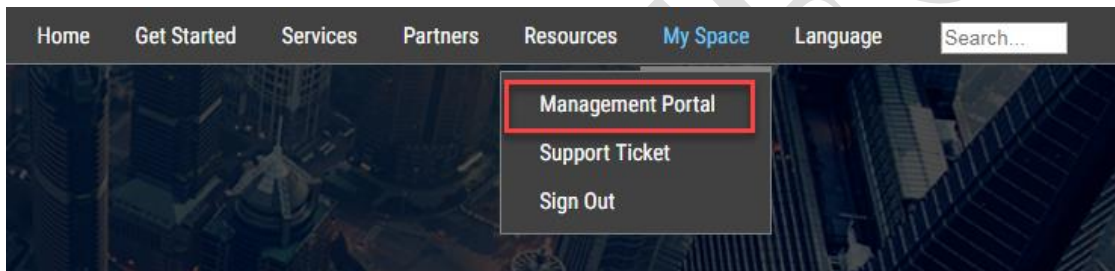


Figure 4. management portal

Step 3. Select the org and space

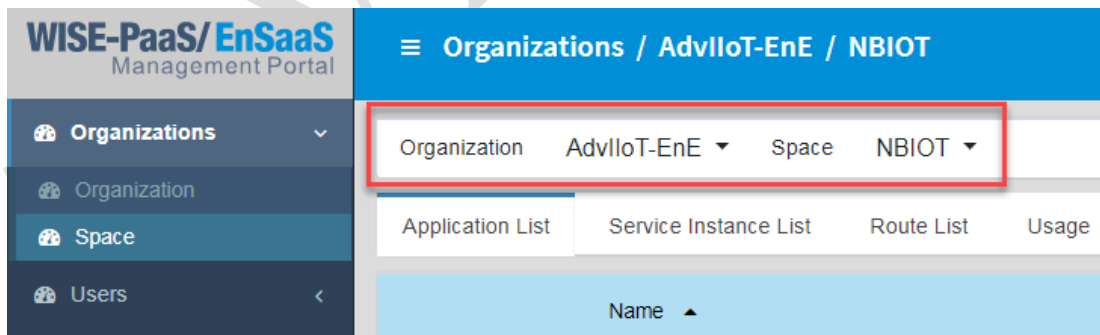


Figure 5. org and space.

Step 4. Go to “portal-scada”. Enable the highest version in your space.

	Name	Package State	State
<input type="checkbox"/>	api-scada-simplejson-1.0.14	STAGED	
<input type="checkbox"/>	dashboard-1.1.17	STAGED	
<input type="checkbox"/>	dashboard-1.1.20	STAGED	
<input type="checkbox"/>	DeviceON-Portal-1.01.001Build001	STAGED	
<input type="checkbox"/>	DeviceOnDataworker	STAGED	
<input type="checkbox"/>	MqttTransmit	STAGED	
<input type="checkbox"/>	portal-scada-1.3.13	STAGED	
<input type="checkbox"/>	portal-scada-1.3.6	STAGED	
<input type="checkbox"/>	scada-dataworker-1.2.6	STAGED	
<input type="checkbox"/>	scada-dataworker-1.3.7	STAGED	

Grafana

Entrance

Phasing data

Figure 6. Portal-scada.

Step 5. Click on the “route”. Different address, same target page.

Routes

portal-scada-adviiot-ene-nbiot.wise-paas.com
portal-scada-1-3-13-adviiot-ene-nbiot.wise-paas.com

Figure 7. Go to support portal.

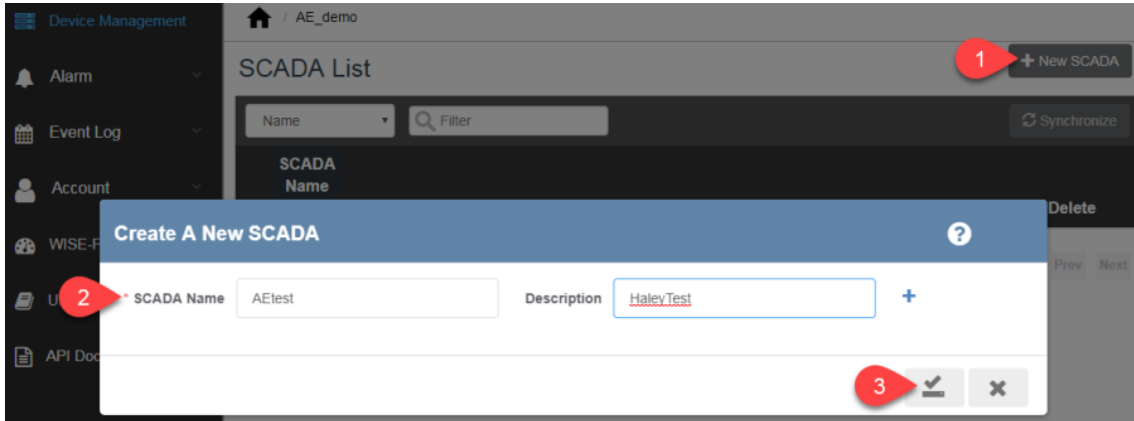
Step 6. Create a new project.

Figure 9. Data update interval.

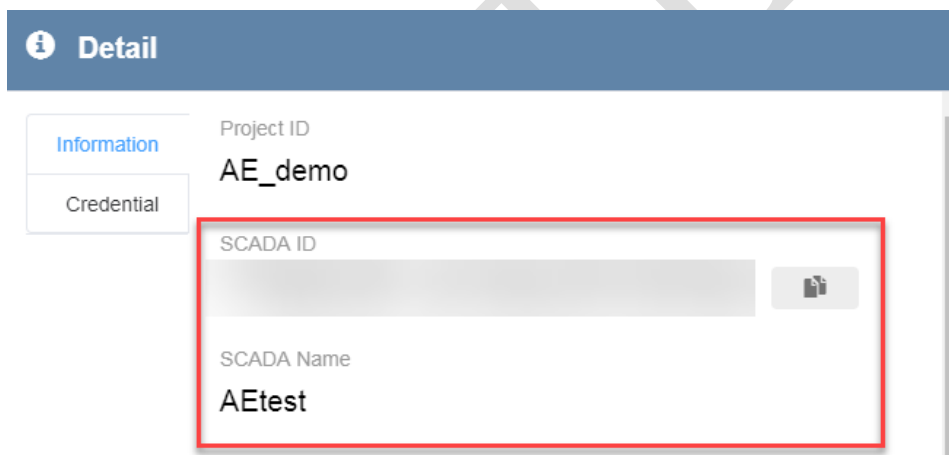
Step 7. Click the created project.

Project ID	Description	Detail	Delete
AE_demo	Haley	...	>

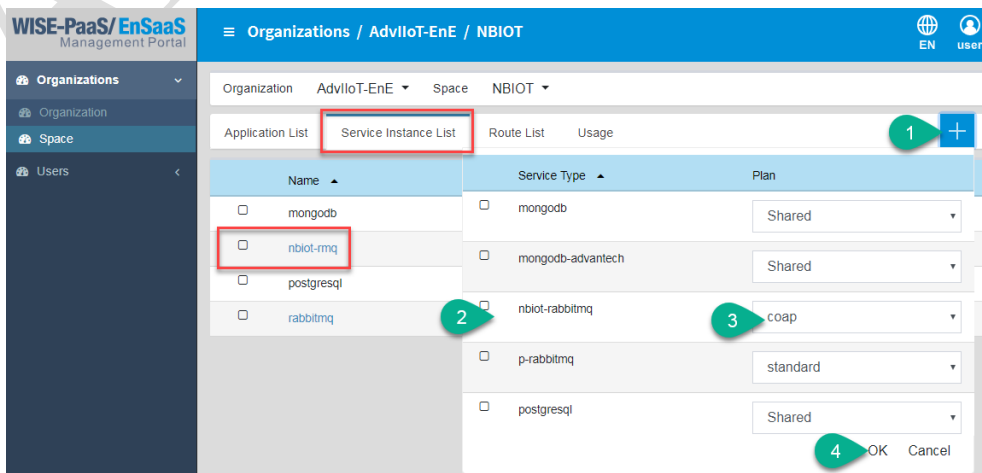
Step 8. Create a new SCADA.



Step 9. Copy-paste the info in to configuration setting page of WISE-4471.



Step 10. Go to “service instance list” and check if your space has “nbiot-rmq” service. Add the service if have not subscribed.



Step 11. Bind with the data worker and scada services

Step 12. Copy-paste the “vhost” into WISE-4771 setting

The screenshot shows the 'Application Bind' and 'Credentials' sections of the WISE Studio interface. In the 'Application Bind' section, 'scada-dataworker-1.3.7' and 'portal-scada-1.3.13' are highlighted with a red box and a '2' callout. A red arrow points to the 'coap' credential in the 'Credentials' section with a '3' callout. The 'vhost' field in the 'Credentials' section is highlighted with a red box and a '4' callout. A red circle with '1' is also present near the application list above.

Application Bind

- scada-dataworker-1.2.6
- portal-scada-1.3.6
- dashboard-1.1.17
- api-scada-simplejson-1.0.14
- scada-dataworker-1.3.7**
- portal-scada-1.3.13**
- DeviceOnDataworker
- MqttTransmit
- dashboard-1.1.20
- DeviceON-Portal-1.01.001Build001

Credentials

host	10.4.0.8
hosts	null
password	CgvTwd9R92QZiIKmdySKF8eU
port	5683
ssl	true
uri	coap://coap-iotHub-eastasia.cloudapp.azure.com/ps/4b5ce878-5b43-40ab-b8e7-400da007776b/amq/topic/
uris	null
username	e59ef121-bb4a-4150-9f3a-039633dd308f
vhost	4b5ce878-5b43-40ab-b8e7-400da007776b

Step 13. Re-start the highest version of portal-scada and scada dataworker

The screenshot shows the 'Application List' tab in the WISE Studio interface. The 'portal-scada-1.3.18' and 'scada-dataworker-1.3.11' rows are highlighted with a red box. The 'Application List' tab itself is also highlighted with a red box.

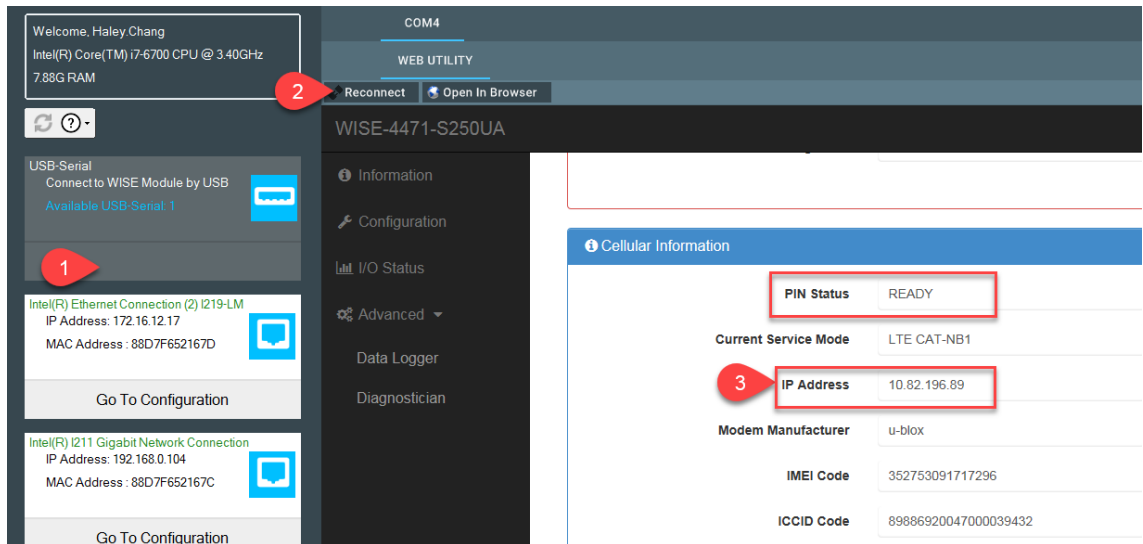
Name	Package State	State
dashboard-1.1.20	STAGED	○
dashboard-1.2.2	STAGED	●
DeviceON-Portal-1.01.001Build001	STAGED	○
DeviceOnDataworker	STAGED	○
MqttTransmit	STAGED	○
portal-scada-1.3.18	STAGED	●
scada-dataworker-1.3.11	STAGED	●

Configuration on WISE Studio

Step 1. Install WISE Studio

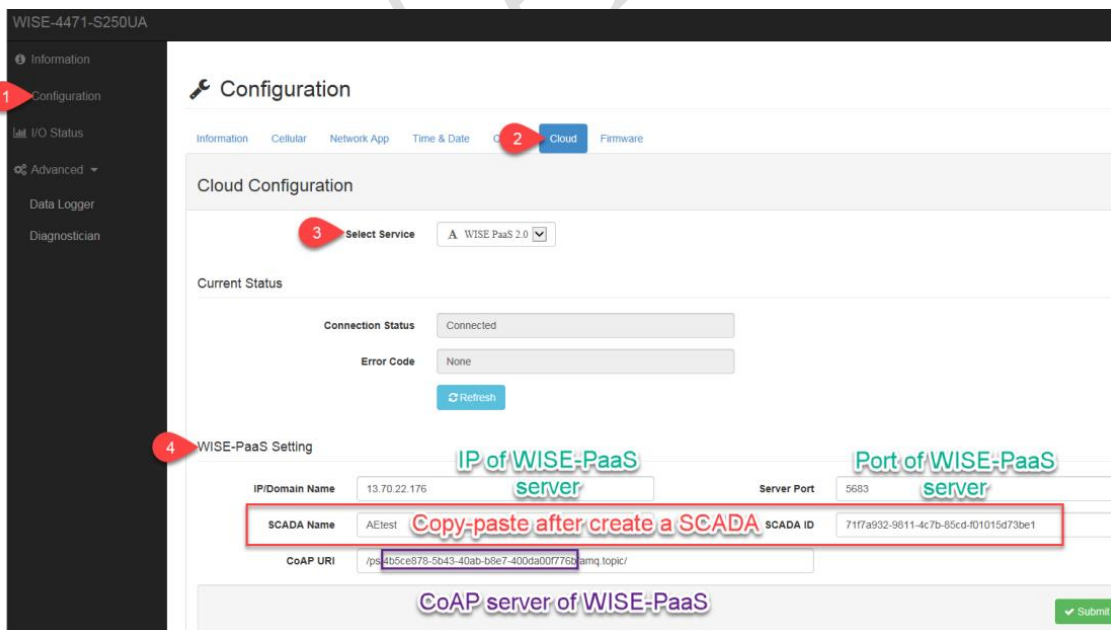
– [Click me to download SW.](#)

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



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

- IP/Domain name: IP of WISE-PaaS server
 - If WISE-PaaS is under domain “.io”:
 - coap-iothub.wise-paas.io ➔ 20.189.73.195
 - If WISE-PaaS is under domain “.com”:
 - coap-iothub.wise-paas.com ➔ 13.70.22.176
- Server port: port of server
- SCADA namd, ID: the one user created on WISE-PaaS
- CoAP URI: /ps/(vhost)/amq.topic/
 - vhost from previous section step 12 while configuring WISE-PaaS



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.

🏠 / WISE_447120190308 / WISE_TEST / WISE-4471-S250UA_0095041

Tag List

Name Filter

Tag Name	Tag Type	Description	Value	Update Time	Detail	Delete
W4471_095041-DI0	Discrete		0	2019-03-08 18:02:23	...	🗑️
W4471_095041-DI1	Discrete		0	2019-03-08 18:02:23	...	🗑️
W4471_095041-DI2	Discrete		0	2019-03-08 18:02:23	...	🗑️
W4471_095041-DI3	Discrete		0	2019-03-08 18:02:23	...	🗑️
W4471_095041-DI4	Discrete		0	2019-03-08 18:02:23	...	🗑️
W4471_095041-DI5	Discrete		0	2019-03-08 18:02:23	...	🗑️
W4471_095041-DO0	Discrete		0	2019-03-08 18:02:23	...	🗑️
W4471_095041-DO1	Discrete		0	2019-03-08 18:02:23	...	🗑️

Prev 1 Next

Figure 11. Query.