# AD\ANTECH Enabling an Intelligent Planet

### Advantech AE Technical Share Document

Date	2018/7/27	SR#	1-3512139482	
Category	■FAQ □SOP	Related OS	N/A	
Abstract	How to subscribe WISE-P	aaS with 3rd part	y MQTT tool	
Keyword	WISE-PaaS, MQTT, Broke	r, Credential Key,	DCCS API URL, SCADA, Debug	
Related	ADAM-3600, ECU-1152, ECU-1251			
Product	ADAIVI-3000, ECU-1152, E	200-1251	4	

#### Problem Description:

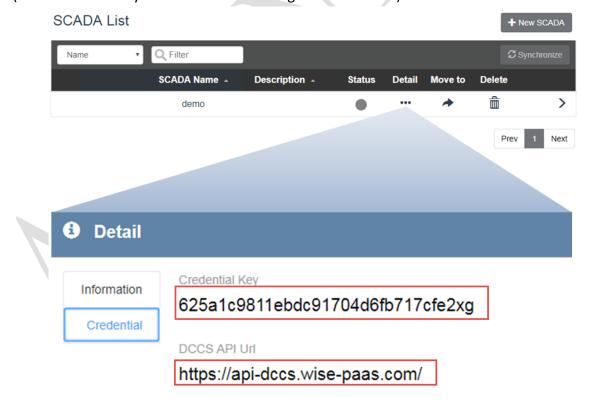
When user implements IIoT devices upload to WISE-PaaS/SCADA, he may need to subscribe WISE-PaaS broker to make sure the values upload successfully. This document explains how to subscribe WISE-PaaS with 3rd party MQTT tool to assist users to debug.

### ■ <u>Answer</u>:

If the user wants to connect/ subscribe the WISE-PaaS broker, he needs to know the following information: (1) Broker's URL/IP (2) Broker's port (3) Login user name (4) Login password.

To get the information, user may follow below steps.

 Find Credential Key and DCCS API URL in WISE-PaaS/SCADA. (DCCS stands for Dynamic Credential Configuration Service.)



DCCS API Url (Global): <u>https://api-dccs.wise-paas.com</u> DCCS API Url (China): <u>https://api-dccs.wise-paas.com.cn</u>

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2. Cascade **DCCS API URL,** "/v1/serviceCredentials/", and **Credential Key** in a string.

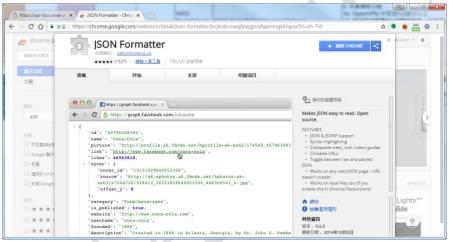
(China) : <u>https://api-dccs.wise-paas.com.cn/v1/serviceCredentials/</u><<u>CredentialKey</u>>

(Global) : <u>https://api-dccs.wise-paas.com/v1/serviceCredentials/</u><CredentialKey> For example:

https://api-dccs.wise-paas.com/v1/serviceCredentials/fc3c407da036f0047506b66f241534xx Paste this URL in the browser and press enter. User could get the information.

Phttps://api-docs.wise-p: x / SON Formatter - Chro: x	The Opening					
← → C û 🔹 R⊉   https://api-dccs.wise-paas.com/v1/serviceCredentials/fc3c407da03680047506b66f241534nj	\$	•	٠	ä	0	0
"serviceName":"p=rebbltma","serviceNost":"hils=msgNub.eastasia.cloudago.ature.com","credentlal":("username":"Daee052b-c220 d5264a6","passuord:":"D6sbd2ff5akk077no4k9dlimu","protocols":("mqtt=ssl":("username":"G60b0b4b0-77la-4427-99ab-faicd8b d5264abul0","ssl":true,"passuord:":"D6sbd2ff5akk077no4k8dlimu","port::6833),"mqtt":("username":"G60b0b4b72rJa-4427-99ab-faicd8b	dfbcf10eae952b-c920-4390-a		-ae41	1-		

[Optional] User may install JSON Formatter in Google Chrome (Restart Chrome after installation.) to view the information in a more comprehensive way.



3. Get the "serviceHost", "port", "username", and "password".

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4. Key in the "serviceHost" and "port" in 3<sup>rd</sup> party MQTT tool (MQTT-SPY) in Server URL.

Ex: wise-msghub.eastasia.cloudapp.xxxxx.xxx:1883

Connection list						
All connections	Connection name	JohnSun143233453@wise-msghub.eastasia.cl				
Sample local brokers	[auto- generated if = client ID@server URI]					
mqtt- spy@localhost	Configuration mode (perspective)	Default - simpified properties				
Public MQTT brokers						
iot.eclipse.org	Connectivity Security Last Will Publ	ications Subscriptions Log Other				
💦 test.mosquitto.org	Protocol version	MQTT (auto- resolve) 👻				
solution broker.mqtt- dashboard.com						
🔊 * JohnSun143233453@wise- msghub.eastas	Server URI(s) [e.g. localhost or mybroker:1883]	udapp.azure.com:1883 Default •				
JohnSun 1 43239420@localhost	Client ID	JohnSun143233453 Generate				
>	[keep it unique to avoid disconnections]	Length = 16/23				
Note: to save the changes, click the "Apply all" button	Clean session					
♣ New ▼ Duplicate ¥ Delete						
🔊 Undo all 🛛 🖌 Apply all	🖌 Apply 🤄 Undo	Close and re- open existing connection				

5. Fill in username and password in Security column.

```
Ex:
```

```
"username": "609bb940-771a-4427-99a0-fa1cdd8dfbcf:0eae952b-c920-4390-ae48
-505264a4c400","password": "906sbd2ff5akko77no4k9d96xx"
```

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Connection list	
All connections	Connection name JohnSun143233453@wise- msqhub.eastasia.cl
Sample local brokers	[auto-generated if = client ID@server URI]
🔊 mqtt- spy@localhost	Configuration mode (perspective) Default - simplified properties 💌
Public MQTT brokers	
iot.eclipse.org	Connectivity Security Last Will Publications Subscriptions Log Other
💦 test.mosquitto.org	도 Enable user authentication
💦 broker.mqtt- dashboard.com	
🔊 * JohnSun143233453@wise- msghub.eastasia.	णु ☐ User name ● Predefined 609bb940- 771 a- 4427- 99a0- fa1cdd8c
JohnSun143239420@localhost	Ask before connecting
JohnSun 1 1 5 1 485 1 8@RTU- IoT- Hub- ADV- John	
	Password   Predefined
>	Ask before connecting
Note: to save the changes, click the "Apply all" button	
+ New - Duplicate X Delete	
) Undo all 🖌 Apply all	Apply Oldo

6. After setting up. Establish the connection with the broker. User could subscribe and monitor the specific topic.

- Journa - 10	1453@wise- msghub.east	asia.cloudapp.azu	re.com:1883			
Publish message						0
Topic Data				•	Publish	•
Scripted publications						0
<ul> <li>Subscriptions and received mess</li> </ul>	ages					0
New All	✓ Show	latest 🔯 💠	<u>ک</u> او خ	Search	🔀 Tools	•
Topic			Time			
Data						
					d: 0.0/0.0/0.	) ))
▼ Received messages summary [s	earch topics:	1	(0 topics, 0 me	ssages, ioa		
▼ Received messages summary [s Topic	earch topics: Content	] Browse	(0 topics, 0 me Messages		received	

 The subscribed topic shall be used as "rmqTopicRead" or "rmqTopicWrite" topic, and replace the "." to "/" in the topic.



For example, the topic ".wisepaas.scada.2385fc9f-6675-406c-8478-1bda8d2cf845.\*" may be modified as "/wisepaas/scada/2385fc9f-6675-406c-8478-1bda8d2cf845/#" for subscription.