

Advantech AE Technical Share Document

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| Date | 2018/7/27 | SR# | 1-3512139482 |
| Category | ■FAQ □SOP | Related OS | N/A |
| Abstract | How to subscribe WISE-PaaS with 3rd party MQTT tool | | |
| Keyword | WISE-PaaS, MQTT, Broker, Credential Key, DCCS API URL, SCADA, Debug | | |
| Related Product | ADAM-3600, ECU-1152, ECU-1251 | | |

■ 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.

■ Answer:

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.

1. Find **Credential Key** and **DCCS API URL** in WISE-PaaS/SCADA.

(DCCS stands for Dynamic Credential Configuration Service.)

SCADA List

+ New SCADA

Name Filter Synchronize

| SCADA Name | Description | Status | Detail | Move to | Delete |
|------------|-------------|--------|--------|---------|--------|
| demo | | | | | |

Prev 1 Next

Detail

Information

Credential

Credential Key

625a1c9811ebdc91704d6fb717cfe2xg

DCCS API Url

https://api-dccs.wise-paas.com/

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

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

2. Cascade **DCCS API URL**, “/v1/serviceCredentials/”, and **Credential Key** in a string.
 (China) : <https://api-dccs.wise-paas.com.cn/v1/serviceCredentials/<CredentialKey>>
 (Global) : <https://api-dccs.wise-paas.com/v1/serviceCredentials/<CredentialKey>>

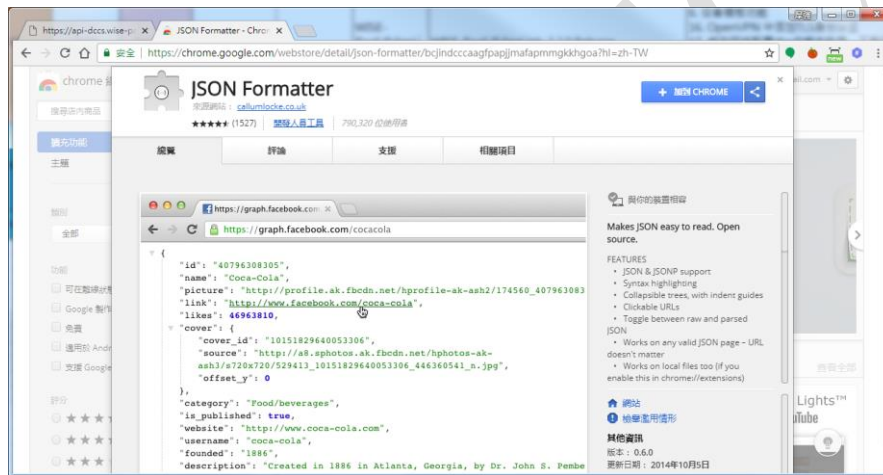
For example:

<https://api-dccs.wise-paas.com/v1/serviceCredentials/fc3c407da036f0047506b66f241534xx>

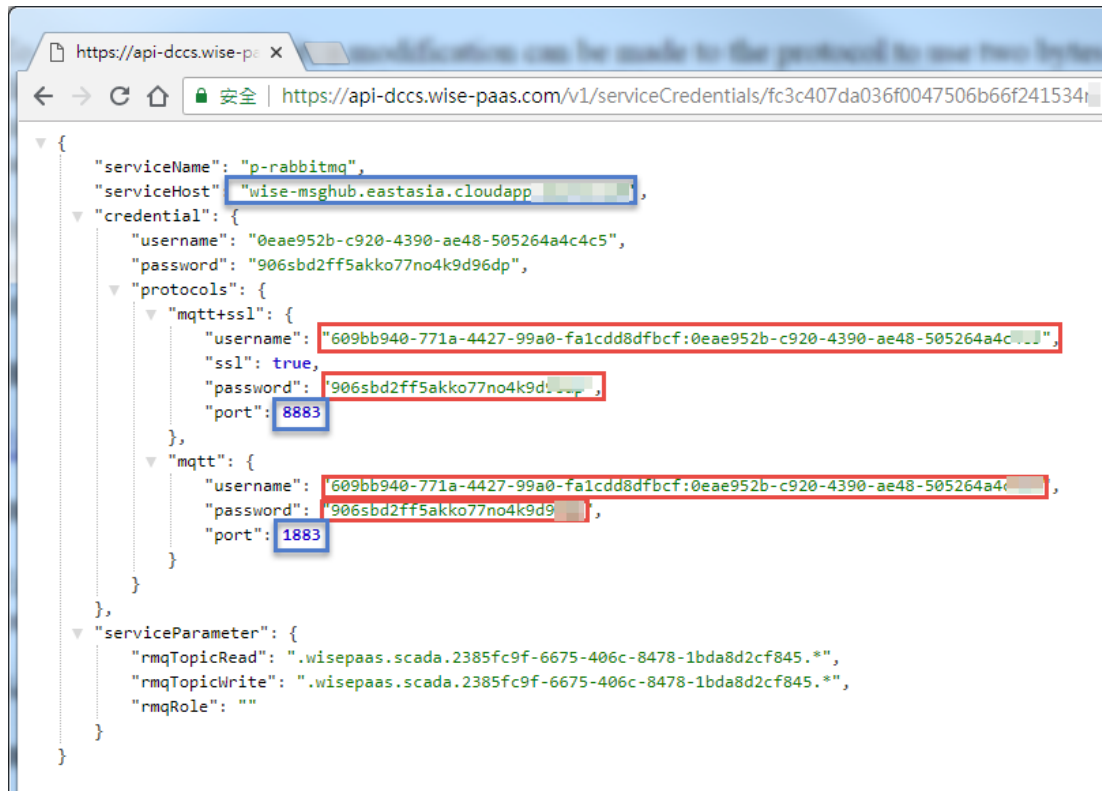
Paste this URL in the browser and press enter. User could get the information.



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

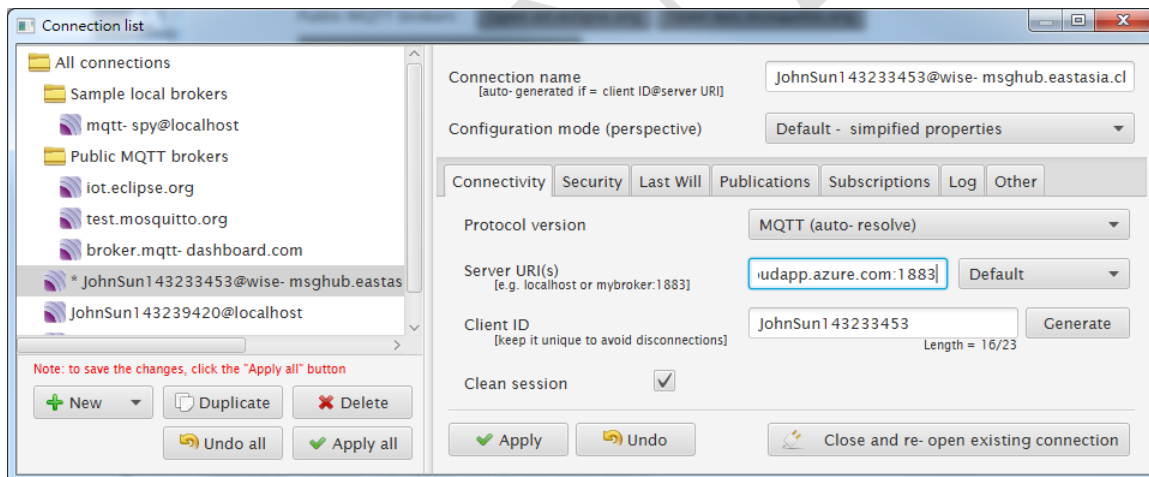


3. Get the “serviceHost”, “port”, “username”, and “password”.



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

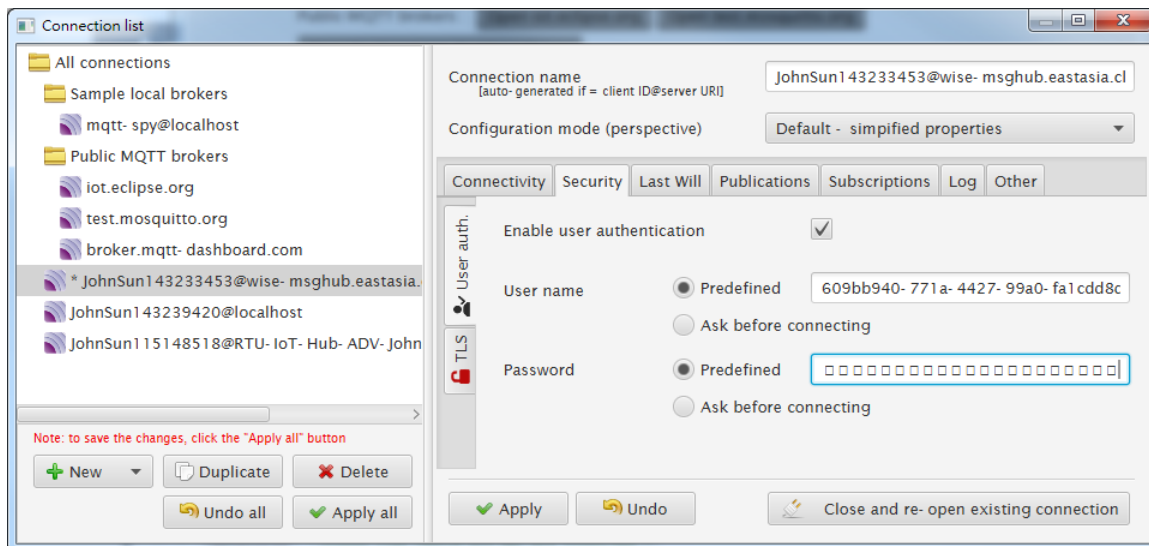
Ex: wise-msghub.eastasia.cloudapp.azure.com:1883



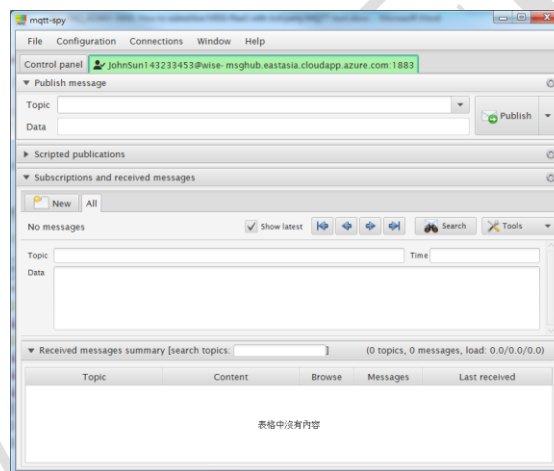
5. Fill in username and password in Security column.

Ex:

"username": "609bb940-771a-4427-99a0-fa1cdd8dfbcf:0eae952b-c920-4390-ae48-505264a4c4c5", "password": "906sbd2ff5akko77no4k9d96xx"



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



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

```

"serviceParameter": {
  "rmqTopicRead": ".wisepaas.scada.2385fc9f-6675-406c-8478-1bda8d2cf845.*",
  "rmqTopicWrite": ".wisepaas.scada.2385fc9f-6675-406c-8478-1bda8d2cf845.*",
  "rmqRole": ""
}

```

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