

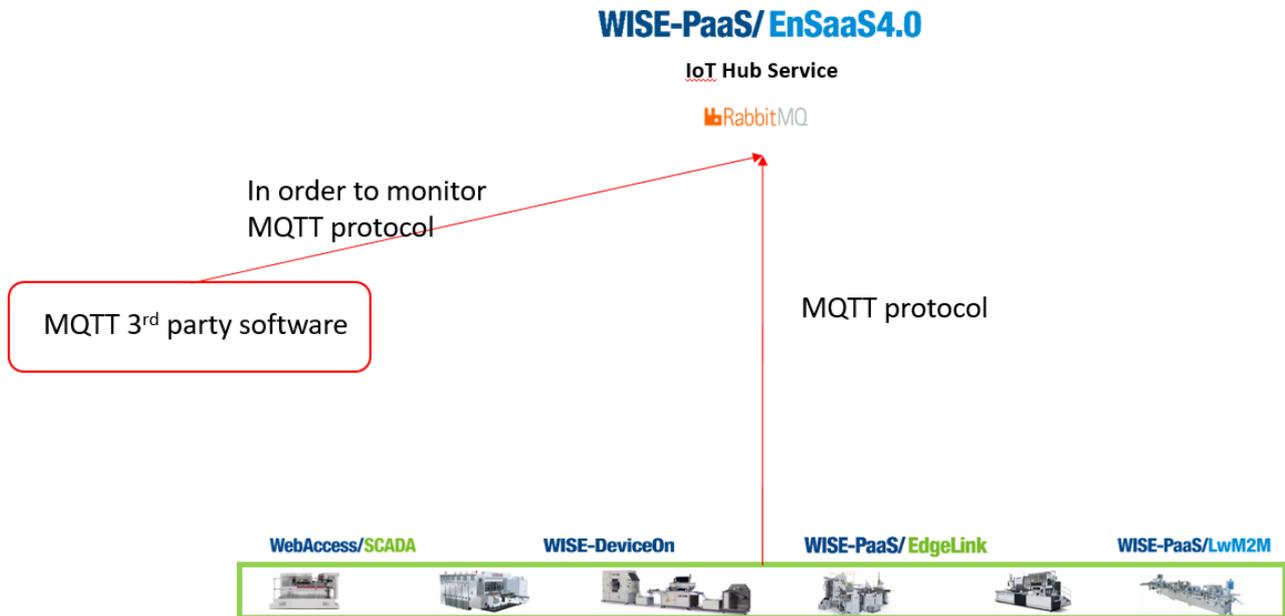
# Advantech SE Technical Share Document

<b>Date</b>	2020/11/3	<b>Related Product</b>	WISE-PaaS/Management Portal/MQTT Box/RabbitMQ	
<b>Category</b>	<input checked="" type="checkbox"/> FAQ <input type="checkbox"/> SOP <input type="checkbox"/> Driver Tech Note			
<b>Abstract</b>	How to subscribe MQTT broker of DataHub			
<b>Keyword</b>	WIES PaaS			
<b>Related OS</b>	Windows Server 2012 / 2016, Win10			
Revision History				
Date	Version	Author	Reviewer	Description
2020/11/3	V1.0	Simon.Chiu	Nick.Liu	DataHub V2.0.8/Management Portal V4

■ **Problem Description & Architecture:**

It is quite difficult to find parameters of MQTT broker in WISE-PaaS in management portal. This FAQ will show how to find it and work with MQTT box (MQTT 3<sup>rd</sup> party software to check MQTT data)

Architecture:



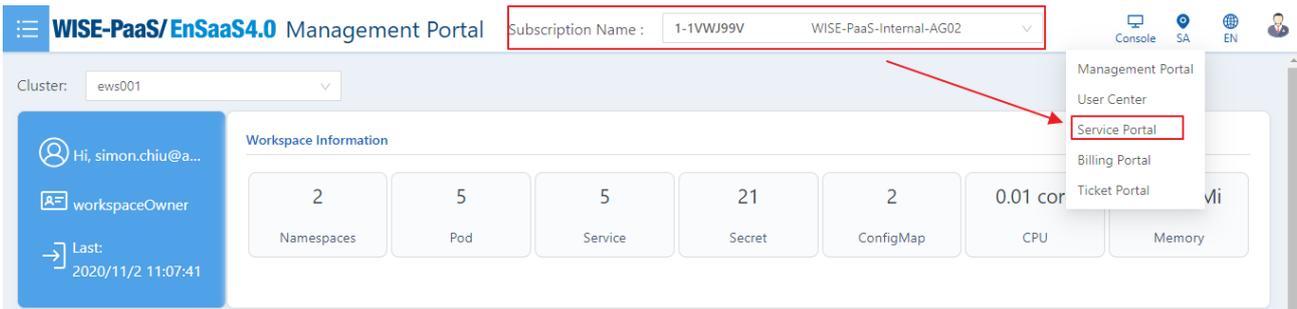
■ **Brief Solution - Step by Step:**

1. Please go to WISE-PaaS and log in



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- Please choose correct subscription name if you have more than one subscription, then click “Service Portal”



- Please find “RabbitMQ” and click “Secret Management”

Active	rabbitmq	0099a81e-6291-11ea-b1de-d20dfb084846	RabbitMQ	standard	2020/3/10 13:35:51	⋮
Active	rabbitmq-oeef1589366105367	0c886f21-3174-460f-a299-c1092cc4ecc5	RabbitMQ	standard	2020/5/13 18:35:31	⋮

- Find your DataHub and click “View” which is under “Action”

**Secret Management**
Instance Name: rabbitmq   Service Name: RabbitMQ   Plan: standard

Manage the secrets for connect to service

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Secret Name	Cluster	Workspace	Namespace	Creation Time	Action
datahub-adviiotse-secret	ews001	adv-iiot-se	adviiotse	2020/3/11 18:02:02	⋮ View Recreate Delete ⋮
datahub-all-in-one-secret	ews001	adv-iiot-se	adviiotse	2020/3/10 14:36:30	
123	ews001	adv-iiot-se	adviiotse	2020/9/21 16:25:22	

5. In order to connect to broker of MQTT, you need (1). Host address (2). Port (3). Account (4). Password. We can find them in Secret Management.

(1). Host address=External Host

View

```

Credentials   Parameters
{
  "binding_name": "datahub-adviiotse-secret"
  "credentials": {
    "externalHosts": "rabbitmq-001-pub.sa.wise-paas.com"
    "hostname": "rabbitmq-001.sa.wise-paas.com"
    "hostnames": [
      0: "rabbitmq-001.sa.wise-paas.com"
    ]
    "password": "hNSMgQr2E6XZ5esZjtz0Zr9iS"
    "protocols": {
      "amqp+ssl": {

```

(2). Port and Password of MQTT

View

```

Credentials   Parameters
}
"mqtt": {
  "host": "rabbitmq-001.sa.wise-paas.com"
  "hosts": [
    0: "rabbitmq-001.sa.wise-paas.com"
  ]
  "password": "hNSMgQr2E6XZ5esZjtz0Zr9iS"
  "port": 1883
  "ssl": false
  "uri":
  "mqtt://0099a81e-6291-11ea-b1de-d20dfb084846%3A2a6d1af5-8d84-4814-b647-
```

## (3). Account of MQTT

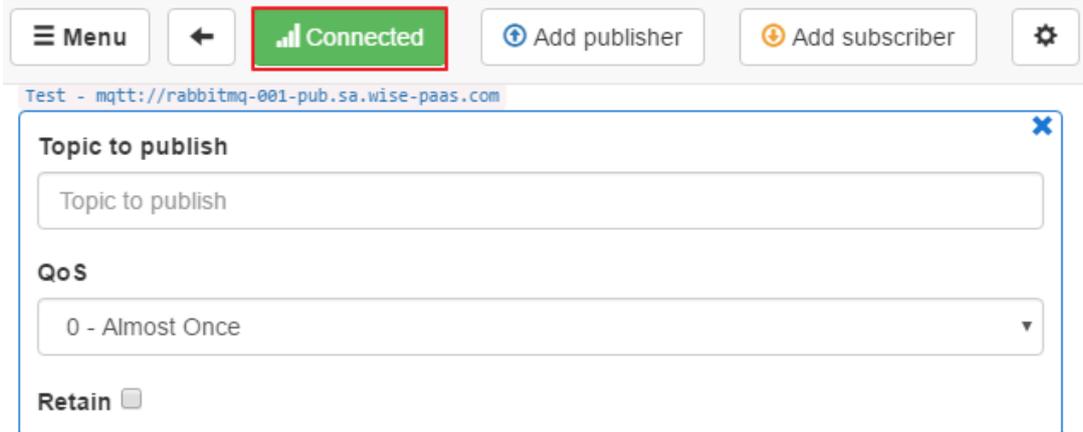
View

**Credentials**    Parameters

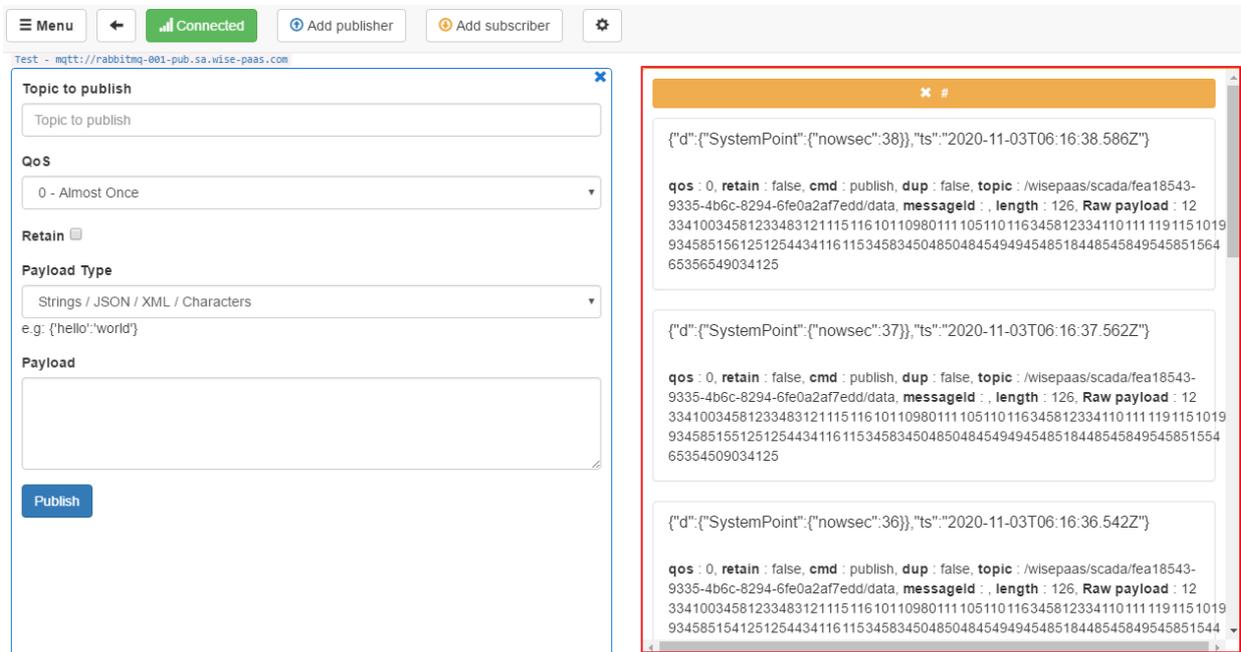
```
f949930820ff:hNSMgQr2E6XZ5esZjtz0Zr9iS@rabbitmq-001.sa.wise-paas.com:1883"
  "uris" : [
    0 :
      "mqtt://0099a81e-6291-11ea-b1de-d20dfb084846%3A2a6d1af5-8d84-4814-b647-
      f949930820ff:hNSMgQr2E6XZ5esZjtz0Zr9iS@rabbitmq-001.sa.wise-paas.com:1883"
    ]
  "username" :
    "0099a81e-6291-11ea-b1de-d20dfb084846:2a6d1af5-8d84-4814-b647-f949930820ff"
  "vhost" : "0099a81e-6291-11ea-b1de-d20dfb084846"
}
  "mqtt+ssl" : {
    "host" : "rabbitmq-001.sa.wise-paas.com"
```

- Download and Install 3<sup>rd</sup> party software MQTTBox from <http://workswithweb.com/mqttbox.html>
- Please copy parameters from steps above to setting of MQTTBox. Meanwhile, please choose protocol in "MQTT/TCP"

- Click Save and check connection status
  - Green Connected: Parameters are all correct.
  - Red Connection Failed: One of parameter is not correct.



- You can start to use topic to confirm if data has been sent successfully from edge side to WISE-PaaS. The example below we use “#” to see every data in broker.



- **Pin Definition (in case of serial connection)**

- **Reference:**