Advantech AE Technical Share Document

Date	2021/10/05	SR#	1-4701253681
Category	□FAQ ■SOP	Related OS	N/A
Abstract	How to connect WISE-46	571 with MQTT b	proker?
Keyword	WISE, NB-IoT, iSensing MQTT		
Related Product	WISE-4471 series, WISE	2-4671 series	

Problem Description:

This document shows that how to connect WISE-4471 with MQTT broker and subscribe data.



AD\ANTECH

Enabling an Intelligent Planet

Solution

Step 1. Install the latest WISE Studio.

Click me to download WISE Studio.

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



Figure 2. Check the device status via WISE studio.

Step 3. Select "iSensing MQTT" service in CLOUD tab.

- MQTT Host Name: To select a MQTT broker with public IP or domain name.
 For example: <u>test.mosquitto.org</u>
- Port Number: port of MQTT broker.
- User Name/Password: If needed.

	1			
Configuration	📌 Configuratio	n		
H 1/0 Status				
	Information Cellular P	Positioning Network App Time & Date	Cloud Firmware	
Site Survey	Cloud Configurati	on		
& Advanced 👻				
	3 Sele	iscnsing MQTT		
		Connection Settings		Advanced Settings
	4 MQTT Host Name	5.196.95.208	5 Port Number	1883
	SSL/TLS	Disable Enable	SSL Certificate Type	CA Signed Server Certificate 🗸
	WebSocket	Disable Enable	WebSocket Path	mqtt
	6 User Name		Password	
	Heartbeat Frequency (sec)	30		
	Publish QoS	0	Subscribe QoS	0

Figure 3. Configure the device.

AD\ANTECH

Step 4. Select the upload IO channel and period.

✗ Configuration	🖺 Data Logger			
🔟 I/O Status	Data Configuration Logger C	onfiguration Local Data Query		
🛔 Site Survey	3	I/O Configuration		System Configuration
🕫 Advanced 👻				
Data Logger	Log Conditions			
Diagnostician		4 Sy Period 600	0.1 sec	
		By Communication WDT Log		
	Log Data	By Channel	DI	By Option
	Channel	Log Enabled		Change of State
	0	2		0
	1			0
	2			
	3			0
	4			
	5			

Figure 4. Select upload period.

Step 5. Select the Logger Configuration.

	ŕ
🖺 Data Logger	
Data Configuration Local Data Query	l
Memory Storage	
	l
System Log ON	l
Push Notification (JSON format)	l
	l
System Log OFF	l
Push MAC Address	I
Push Timestamp	I
Timestamp Format Local Date and Time(GMT)	
✓ Submit	
	-

Figure 5. Select Logger Condition.

ADVANTECH Enabling an Intelligent Planet

Step 6. Subscribe the MQTT topic and check the result.

_

The MQTT topic is Advantech/{IMEI Code}/#

E Menu + .Il Connected	Add publisher	Add subscriber
osquitto - mqtt://test.mosquitto.org:1883		
Topic to subscribe	×	X Advantech/862061043535185/#
Advantech/352753091715498/#		
		{"s":6,"t":"2021-10-05T03:30:52Z","q":19
QoS		2,"c":0,"di1":false,"di2":false,"di3":false,"di4":
0 - Almost Once	•	false,"di5":false,"di6":false}
Subscribe		<pre>qos : 0, retain : true, cmd : publish, dup : false, to pic : Advantech/862061043535185/data, messag eld : , length : 152, Raw payload : 123341153458544 43411634583450485049454948454853844851585148 5853509034443411334584957504434993458484 4341001054934581029710811510144341001055 03458102971081151014434100105513458102971081 1510144341001055234581029710811510144341 0010553345810297108115101443410010554345 810297108115101125</pre>
		{"status":"connect","name":"WISE-4671-S67 2UA","macid":"862061043535185","ipadd r":"10.163.172.226"}
		<pre>qos : 0, retain : true, cmd : publish, dup : false, to pic : Advantech/862061043535185/Device Status.</pre>

Figure 6. Subscribe the MQTT topic to get the result.