## AD\ANTECH Enabling an Intelligent Planet

### Advantech AE Technical Share Document

Date	2018/8/20	SR#	1-3534506441		
Category	■FAQ □SOP	Related OS	N/A		
Abstract	How to upload iRTU data to private server with SimpleMQTT				
Keyword	MQTT, Cloud, SimpleMQTT				
Related					
Product	ADAIVI-3000, ECU-1132, E	200-1251			

#### Problem Description:

If the user does not want use other Cloud service (Azure or WebAccess), user could establish his own private server. This document explains how to set up a local private server (MQTT broker) and upload iRTU data to the private server with SimpleMQTT.

#### Answer:

The application scenario may be illustrated as below image.



We illustrate how to upload iRTU data to private server with SimpleMQTT as 3 steps.

Step 1. Set up mosquitto broker

Step 2. Setup ADAM-3600 for publishing

Step 3. Monitor with online client

### Step 1. Start Hive-MQ Broker

Download Hive-MQ Broker. https://www.hivemq.com/downloads/

The free trial version has some limitation, (ex. max connection only to 25 links), but it's ok in this demo.

名稱	修改日期	類型
🐌 bin	2018/6/25 下午 0	檔案資料夾
퉬 conf	2018/6/25 下午 0	檔案資料夾
퉬 data	2018/8/20 下午 0	檔案資料夾
퉬 license	2018/6/25 下午 0	檔案資料夾
퉬 log	2018/8/20下午 0	檔案資料夾
퉬 plugins	2018/6/25 下午 0	檔案資料夾
퉬 third-party-licenses	2018/6/25 下午 0	檔案資料夾
README.txt	2018/6/25 下午 0	文字文件

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Following the README.txt: Right click on bin\run.bat The broker on the PC would start to listen to connection.



Default setting: no Username, no password, Port: 1883

#### Step 2. Setup in EdgeLink Project

User may refer to EdgeLink Studio Online help to set up SimpleMQTT. User may only need to enable SimpleMQTT, fill in the host name as broker's IP (PC's IP), and select the tag for uploading.

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#### Step 3. Monitor on MQTT Client

Download MQTT Client tool (org.eclipse.paho.ui.app-1.0.0)

http://support.advantech.com.tw/Support/DownloadSRDetail\_New.aspx?SR\_ID=1-1KRCCH H&Doc\_Source=Download

#### WebAccess/SCADA MQTT Test Tool

Solution : WebAccess/SCADA MQTT Test Tool

Download File	Released Date	Download Site
mqtt-spy-0.6.0-beta-b52-jar-with-dependencies.jar	2018-04-27	Primary Secondary
org.eclipse.paho.ui.app-1.0.0-win32.zip (WindowsX86)	2018-08-06	Primary Secondary
org.eclipse.paho.ui.app-1.0.0-win64.zip (WindowsX64)	2018-08-06	Primary Secondary
jre-8u161-win32.7z (WindowsX86_JavaPatch)	2018-08-06	Primary Secondary
jre-8u161-win64.7z (WindowsX64_JavaPatch)	2018-08-06	Primary Secondary

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connection1	O MOTT Or Options						
	Connection	E History 🖽 Last Message					
	Server URI tcp://172.16.12.53:1883	Event	Topic	Message	QoS	Retained	Time
	Client ID paho-264472931195427	Connected					2018-08-20 15:41:21
	Status Connected	Subscribed			0		2018-08-20 15:41:27
		Received	data/device_id	("d":[["tag":"John","value"	5 )	No	2018-08-20 15:41:29
	Connect Disconnect	Received	data/device id	("d":[["tag":"John","value"	0	No	2018-08-20 15:41:32
	Subscription X X 2 Topic QoS 0 - At Most Once Subscribe						
	Tanka hat						
	Topic test						
	Qos 0 - At Most Once + Retained						
	Message						
	File Publish						

- 1. Fill in the Server URI as the Hive-MQ Broker.
- 2. Click "Connect". If there is no error, the status would show "connected"
- 3. Add a new subscription with all topic "#".
- 4. Click "Subscribe".
- 5. Check the results.