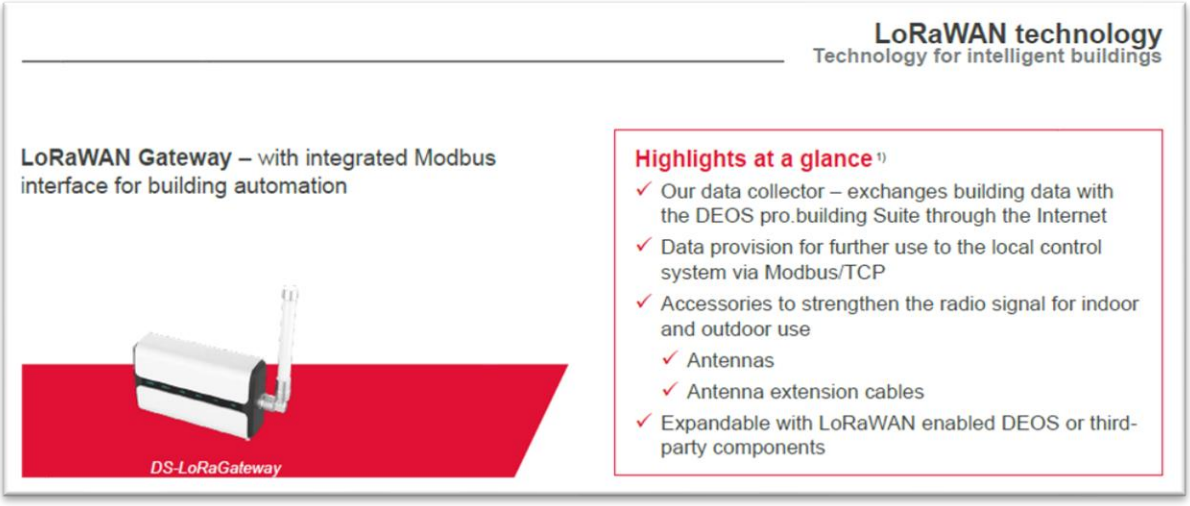
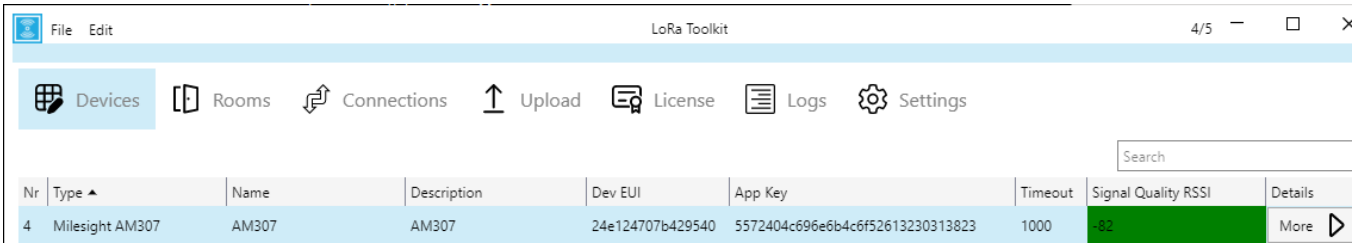
TT230801 – LoRa - LoRaWAN Gateway MQTT

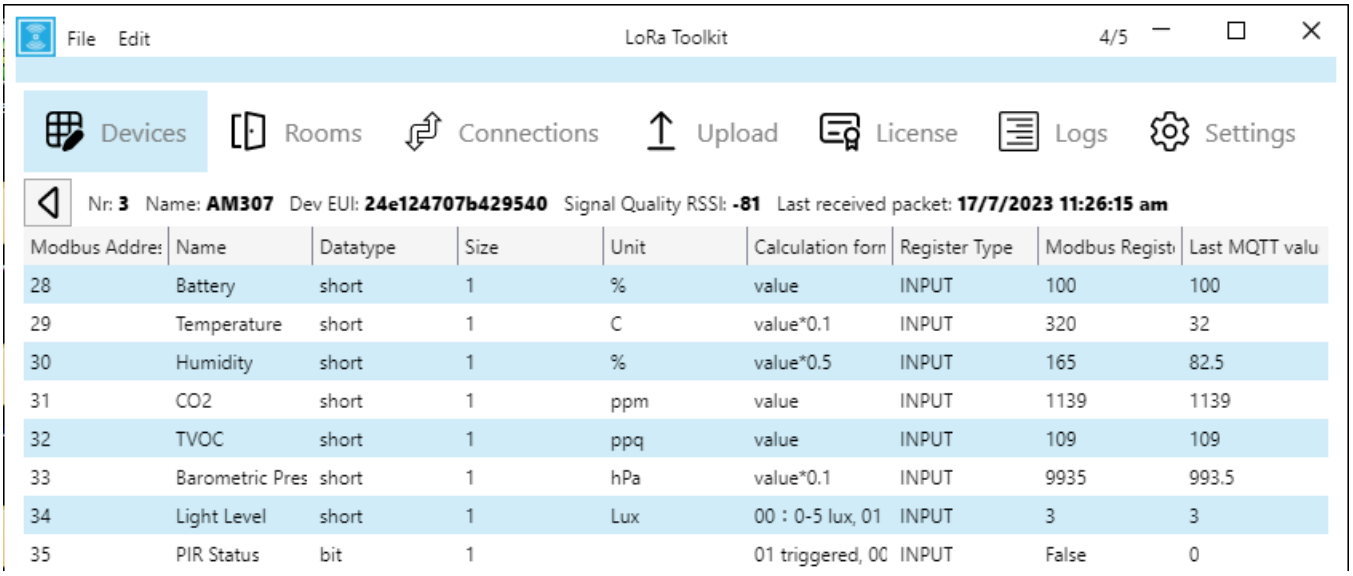
1. In this document, we will show you how setup the MQTT connection to the LoRaWAN gateway and sensor. Please refer to TT230701 for the setup of the LoRaWAN gateway.



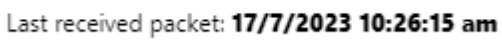
2. Start “LoRa Toolkit”, under “Devices” tab, you should see the “Signal Quality RSSI” column show a negative number in green color, if the connection to the LoRa sensor is successful.



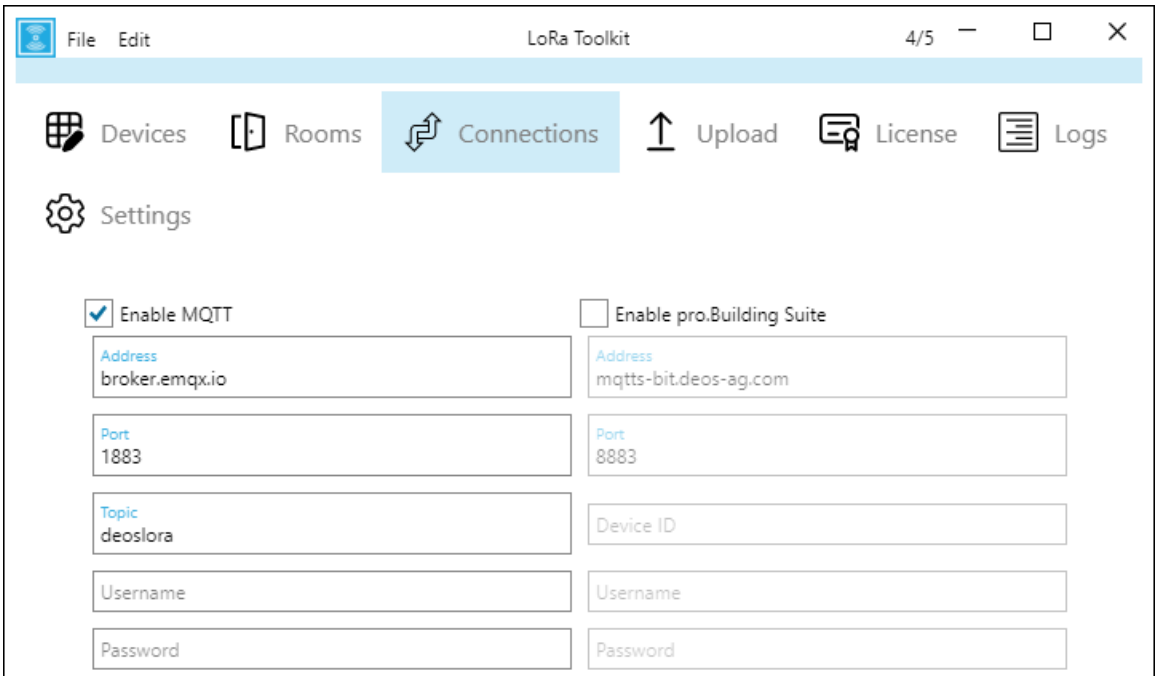
3. Click the More button to see all the points in the sensor. The last column is the MQTT values.



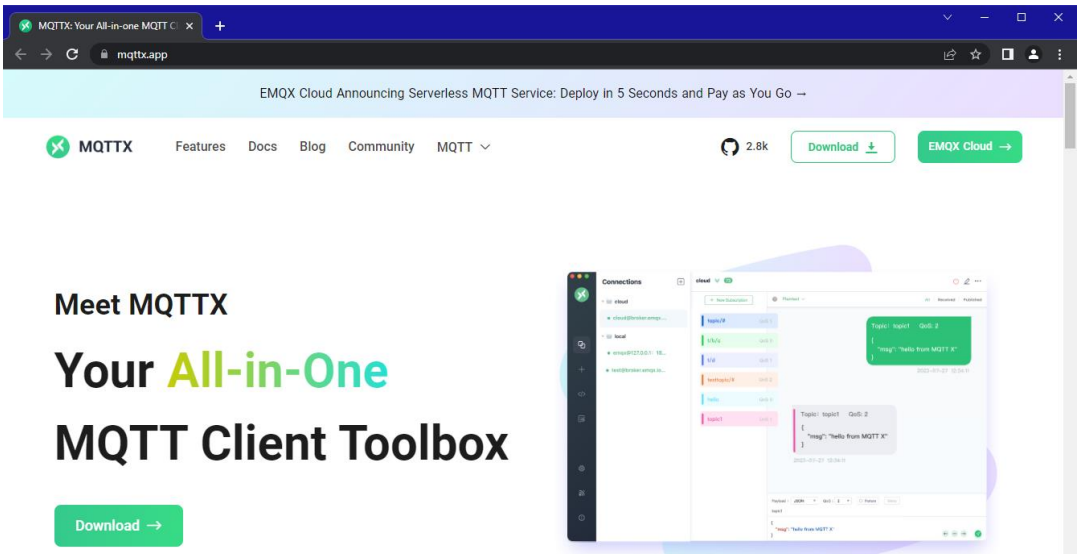
4. Please note that the update rate of the sensor is slow (e.g. 10 minutes). You can see the last received packet date/time.



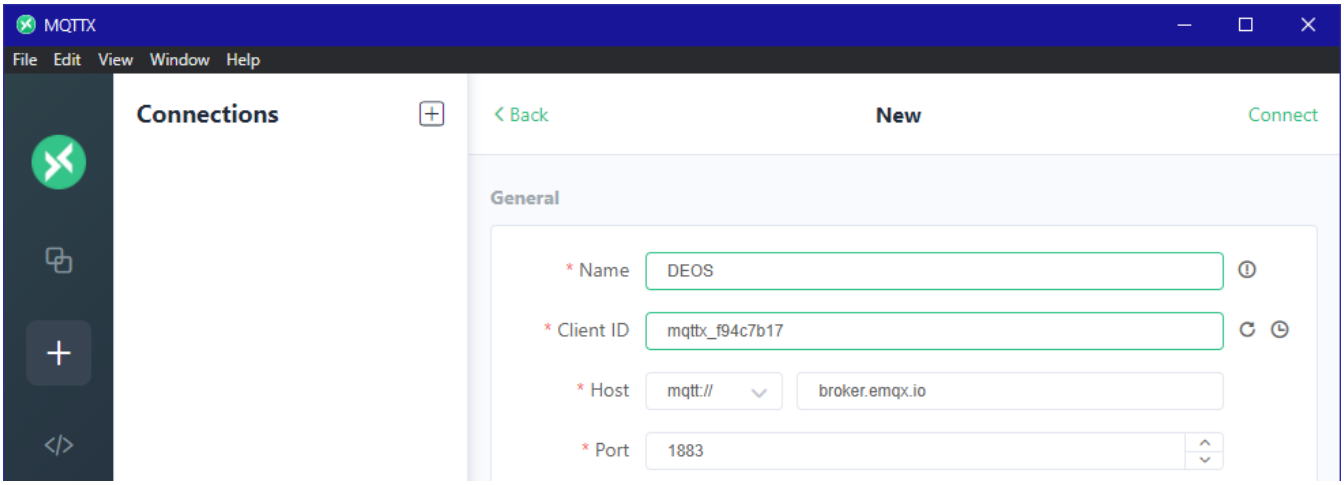
5. To enable the ”MQTT” connection, click the “Connections” tab and set the MQTT settings accordingly. In this example, we use the “free” MQTT broker (broker.emqx.io) for the testing. Note: please make sure you do not use the same “Topic” name in your testing. For example, you can use “deoslora1” for your testing.



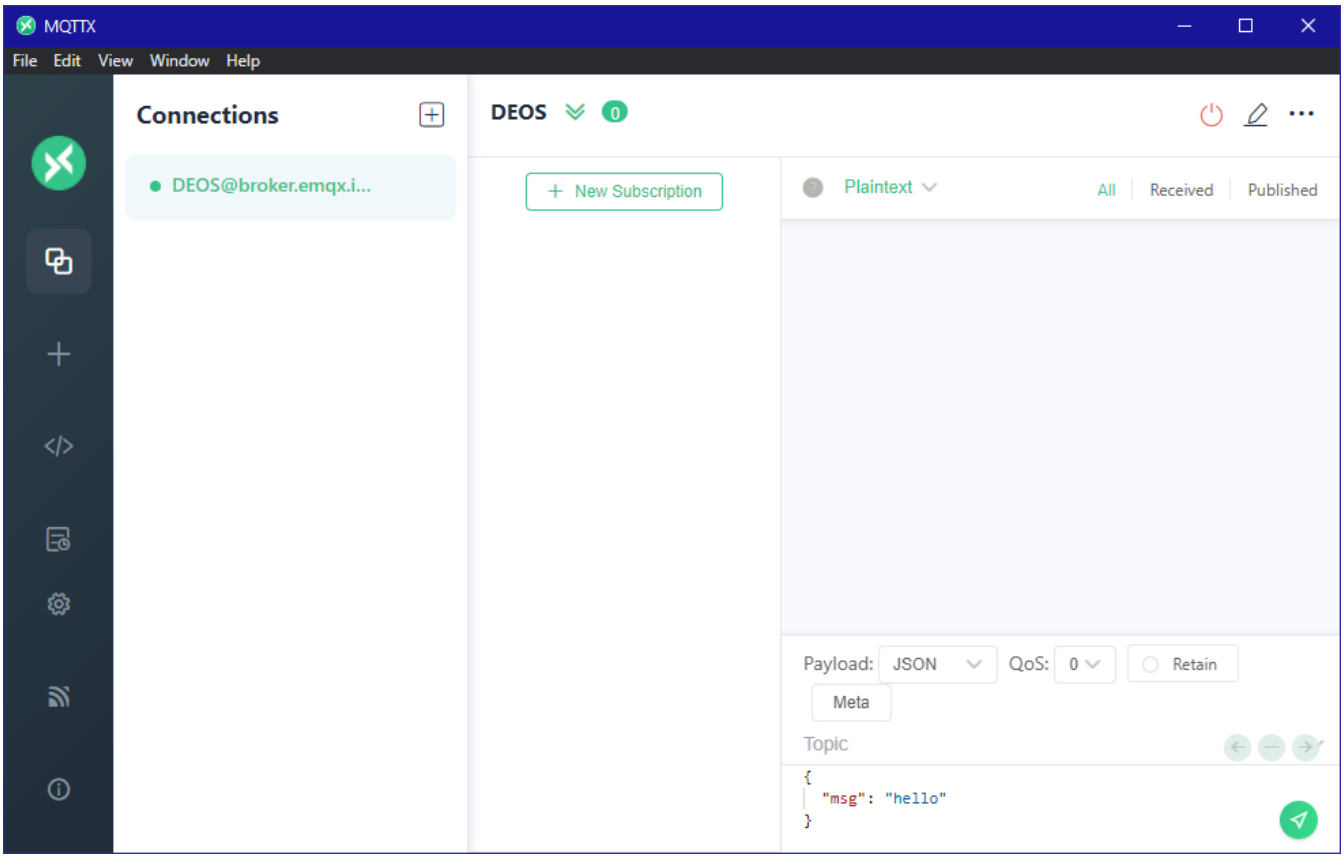
6. To test the MQTT connection to the LoRaWAN gateway/device, we use “MQTTX” software.



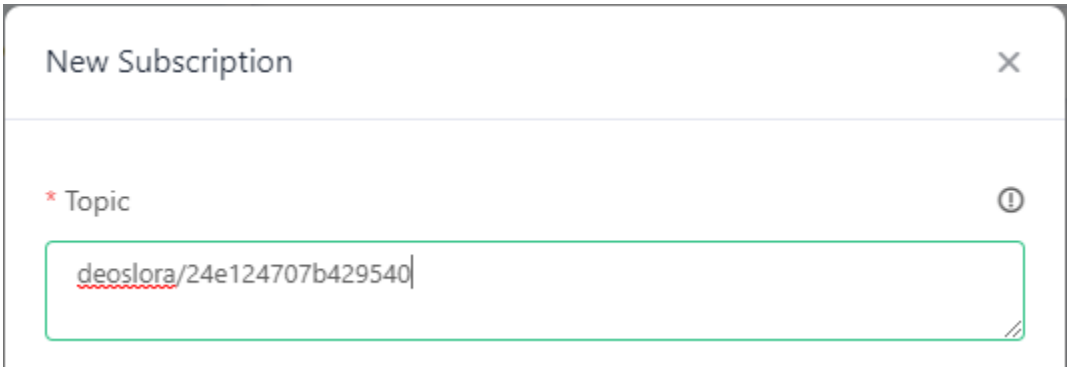
7. Start the “MQTTX” software and create a new connection.



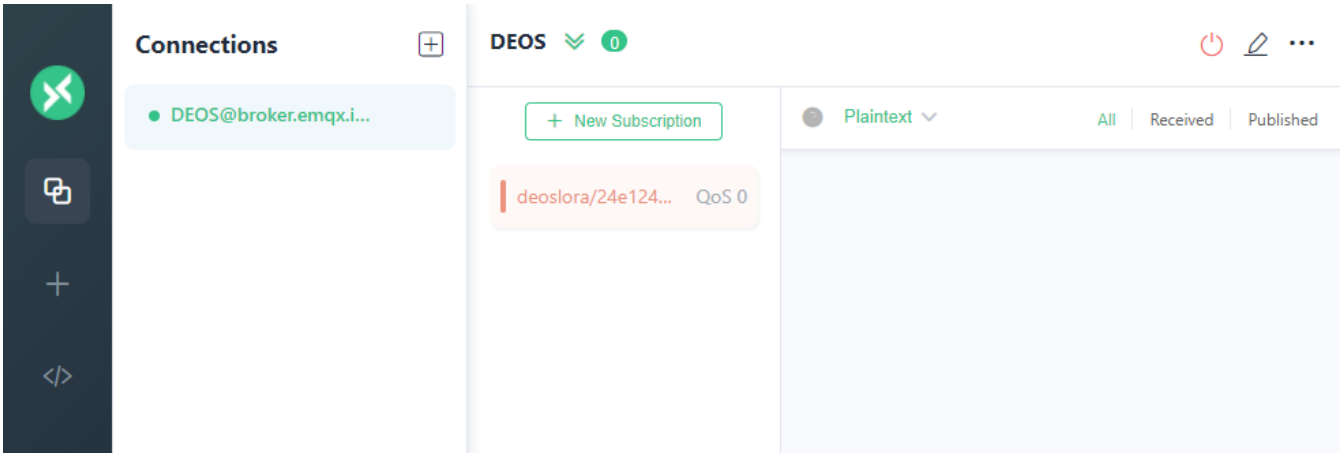
8. Set “Host” to “broker.emqx.io” and input a name as you like. The others can leave as default. Click the “Connect” button at the top right-hand corner. Now you’re connected to the MQTT broker.



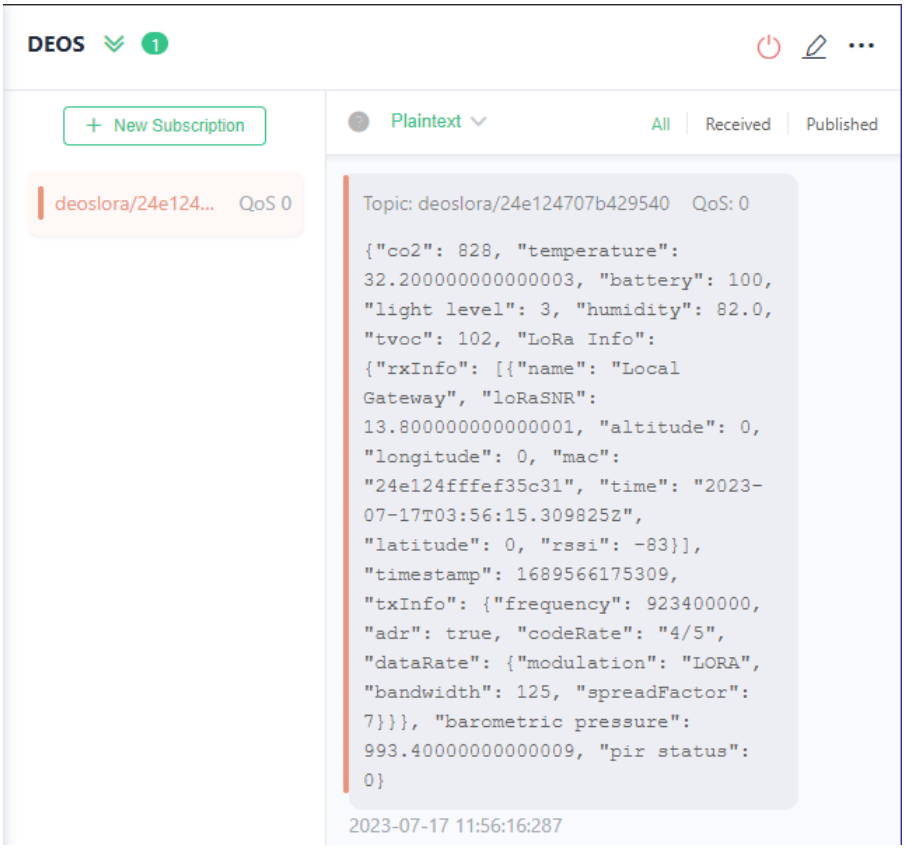
9. Click the “New Subscription” button. Set the “Topic” like below according to your previous setup. The string behind “/” is the “Dev EUI” of the LoRaWAN device.



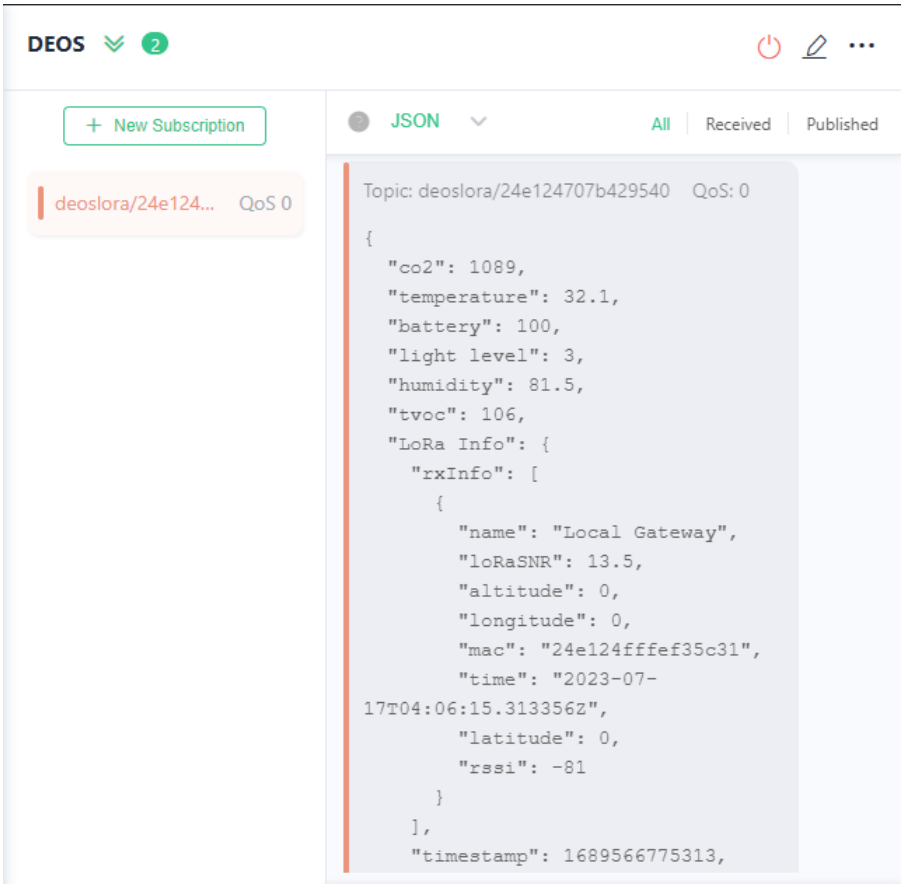
10. Click the “Confirm” button to add the new subscription. Now you’ve to wait for a few minutes.



11. Wait after a few minutes and you should see the MQTT messages received with all the sensor values.



12. Change the message from “Plaintext” to “JSON” and wait for another few minutes to see the sensor values in a more readable format.



13. There are many Apps in Google Play for MQTT testing and dashboard. Here is an example for your reference.

Google Play Games Apps Movies & TV Books Kids

MQTT Dash (IoT, Smart Home)

Routix software

4.8★
5.53K reviews

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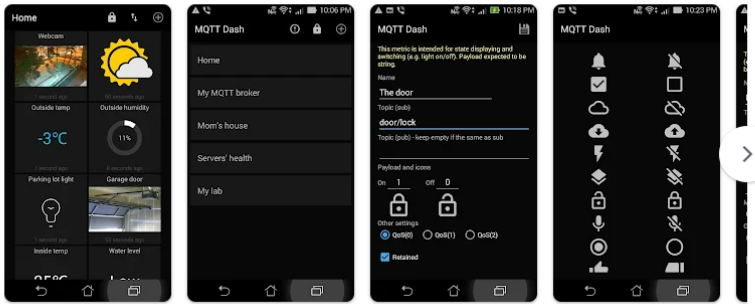

Developer contact

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