# MQTT.py
# Documentation

# MQTT Module

*" MQTT Module allows used to register a device and send the desired measurements to cumulocity using mqtt API commands. "*

**Module Methods:**

- **on_message (client, userdata, message):** displays all incoming messages , has sample payloads that signal restart command, sends the session start event when "reset" is received in payload, stops sending measurements if "stop" is received, and starts to send measurements when "start" is received.

- **perform_restart ():** simulates restart.

- **send_BikeSpeedMeasurement (data):** sends the bike speed measurements to cumulocity by using the publish mqtt API command.

- **send_BikeRevolutions (data):** sends the bike revolutions to cumulocity by using the publish mqtt API command.

- **send_BikePower (data):** sends the bike power measured to cumulocity by using the publish mqtt API command.

- **publish (topic, message, wait_for_ack=False):** publishes a message.

- **On_publish (client, userdata, mid):** displays all outgoing messages.

- **send _BikeStartSession ():** sends the BikeStartSession event to cumulocity, which will reset the measurement values.

- **initiate_measurements ():** sends 0 value to all bike measurements to initiate them