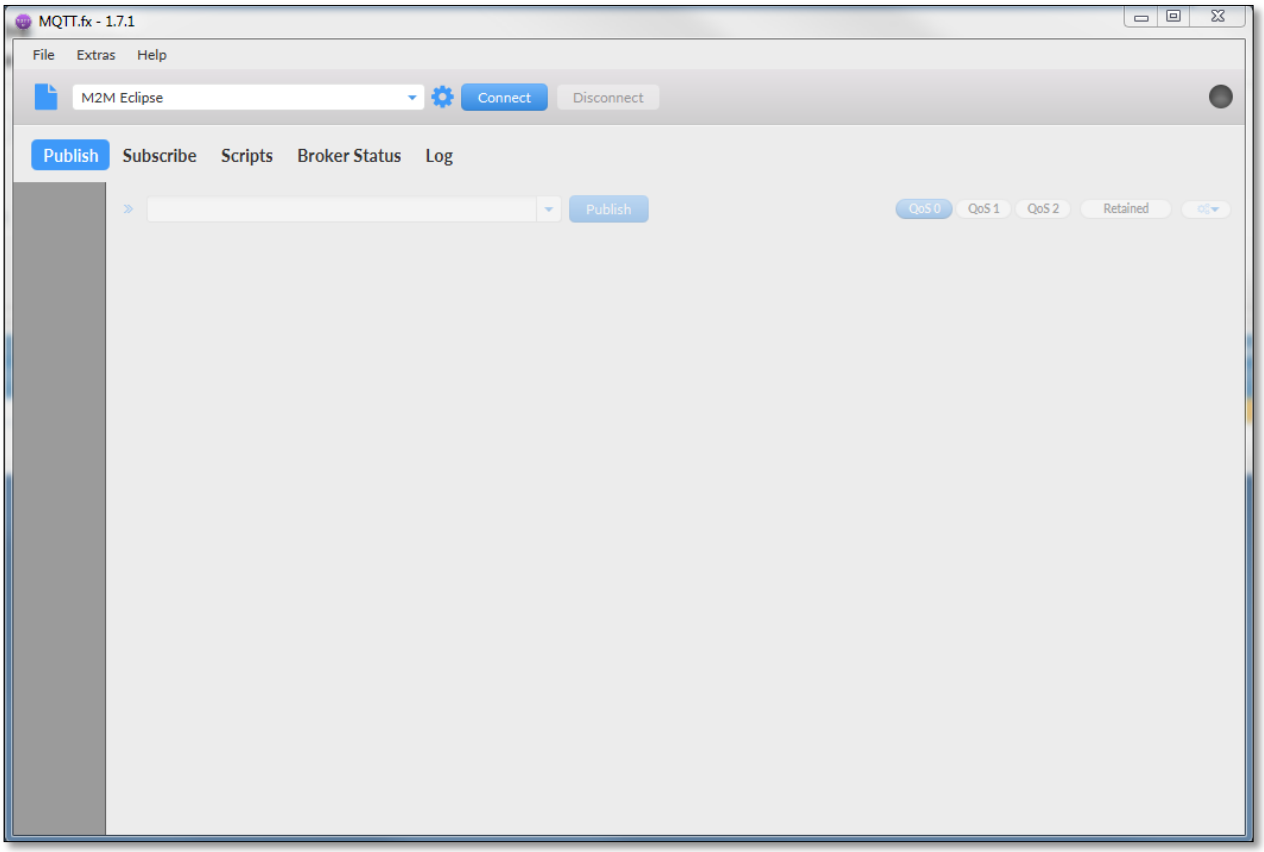
RUT9XX MQTT Configuration

1. Setting-Up PC

First of all you need to download and install latest "MQTT.fx" software into your PC. After installation, open it and you should see something like this:



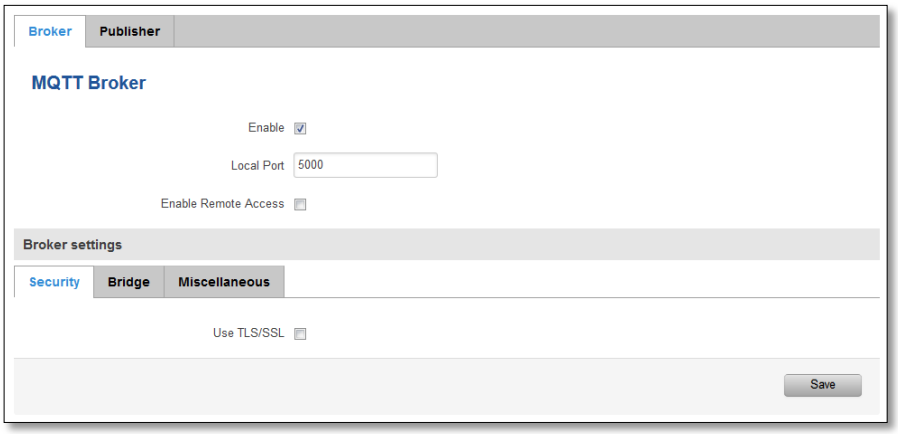
For now leave it, and connect to your RUT9XX WebUI and there we will start configuring router.

2. Configuring RUT9XX

When in RUT9XX Overview windows navigate to ***Service -> MQTT*** and here you will need to configure both ***"Broker"*** and ***"Publisher"***.

2.1. MQTT Broker Configuration

Simple enable ***"MQTT Broker"*** enter any local port, for example ***"5000"*** and save it.

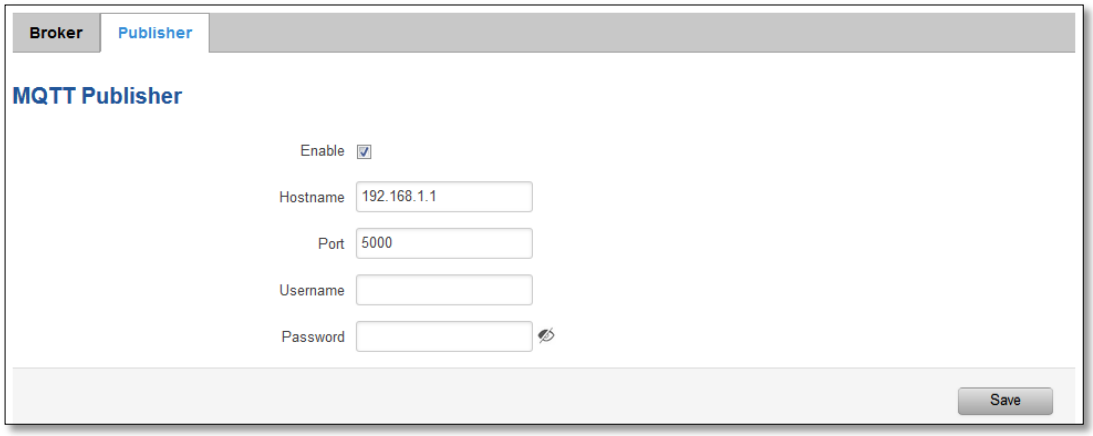


Now we need to configure ***"MQTT Publisher"***.

2.2. MQTT Publisher Configuration

Simple click ***"Publisher"*** tab next to the ***"Broker"*** and set these settings. Use same port as in ***"Service -> MQTT -> Broker"*** menu. In this example we will use port: 5000.

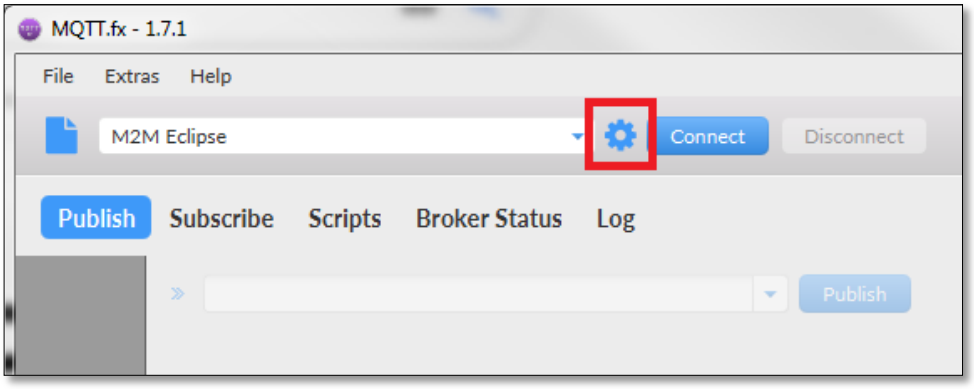
- **Hostname:** 192.168.1.1
- **Port:** 5000



Save the settings. Now we will need to configure ***"MQTT.fx"***.

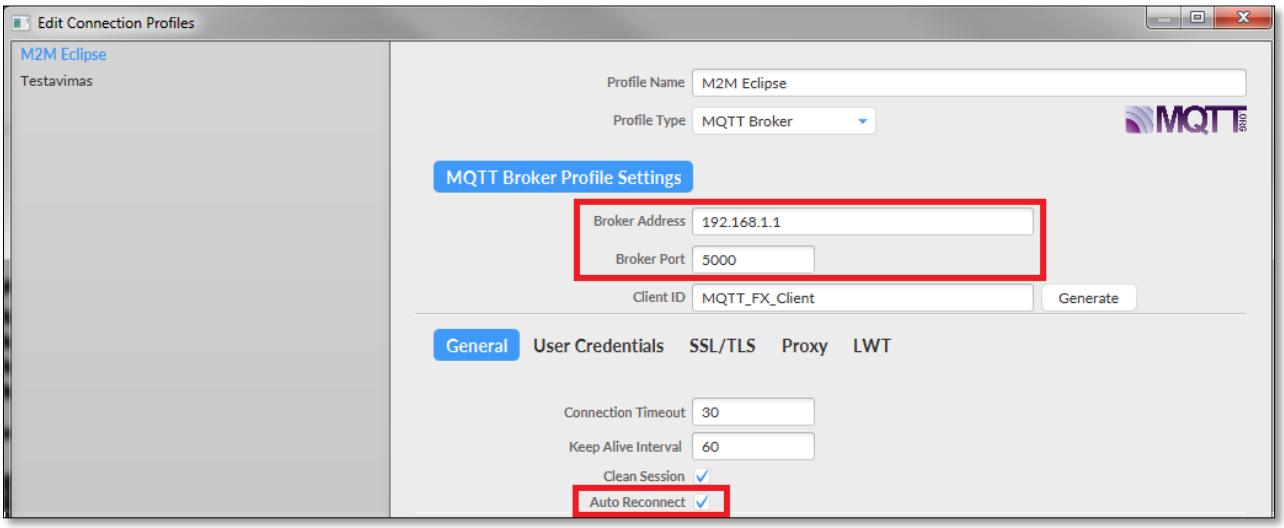
3. Configuring "MQTT.fx" on PC

To configure ***"MQTT.fx"*** click ***"configuration icon"*** near ***"Connect"*** button:



After clicking it, new ***"Edit Connection Profile"*** window should appear there you need to set these settings:

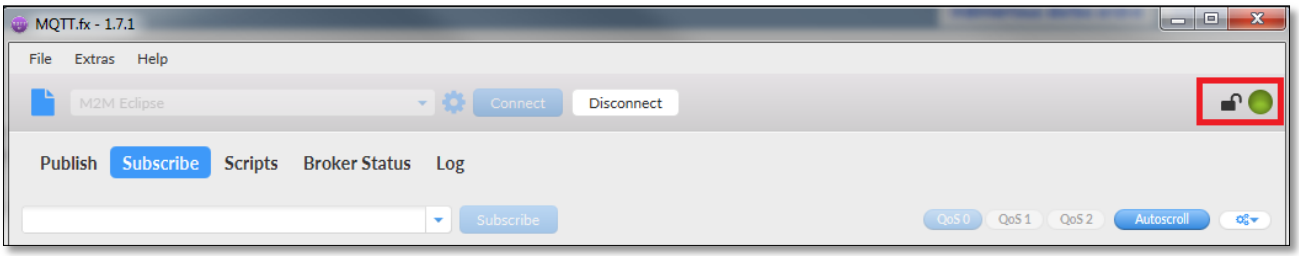
- **Broker Address:** 192.168.1.1
- **Broker Port:** 5000
- **General -> Auto Reconnect:** enable



Click ***"Apply"*** and close the window.

4. Collect data from RUT9XX

In the main window press ***"Connect"*** button. Green circle should appear in the top right corner of the window, indicating that you have successfully connected to the router:



To collect data from RUT9XX via MQTT you will have to use ***"Subscribe"*** and ***"Publish"*** tabs.

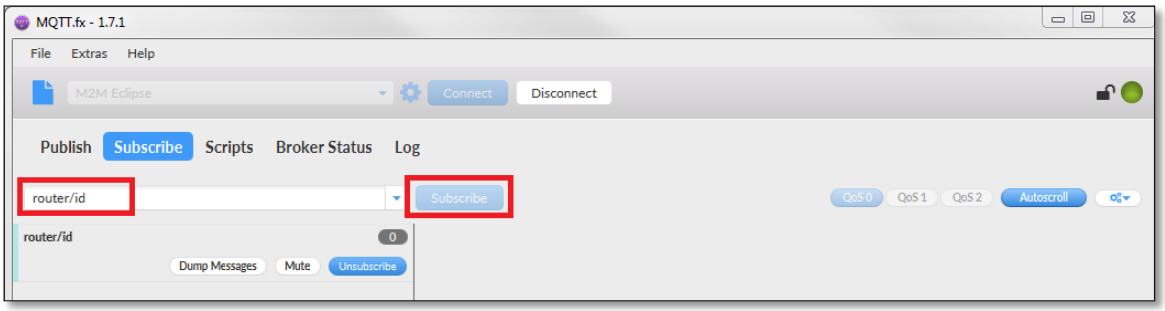
- **Subscribe:** from this menu you are able to subscribe to desired parameters.
- **Publish:** from this menu you are able to ask for desired parameter value. The response from router will be visible in "Subscribe" menu.

Example: how to receive routers serial number and operator name.

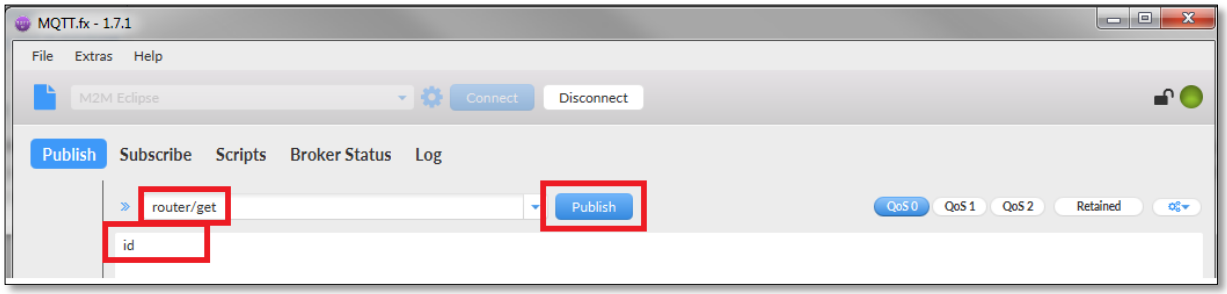
First you need to find out router's serial number:

- In ***"Subscribe"*** menu enter ***"router/id".*** This action tells ***"MQTT.fx"*** software to listen ***"id"*** parameter.
- Now in ***"Publish"*** menu enter ***"router/get"*** and in textbox below enter ***"id".*** After clicking ***"Publish"*** in ***"Subscribe"*** menu you should see response from the router

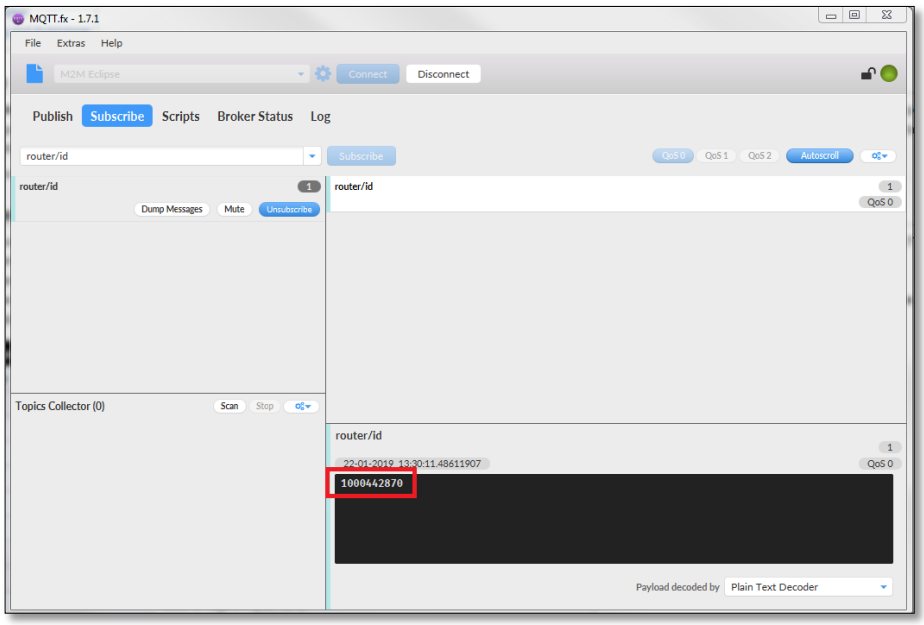
Subscribe:



Publish:

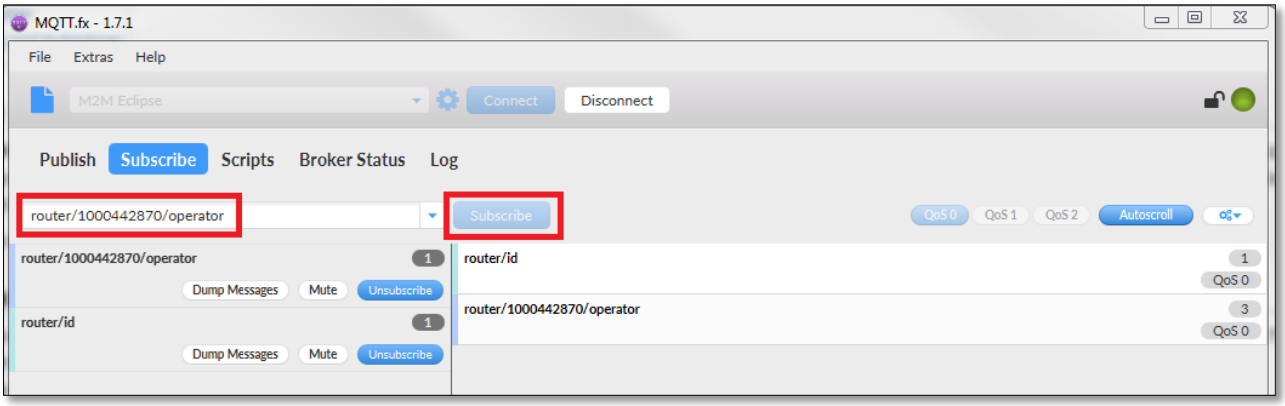


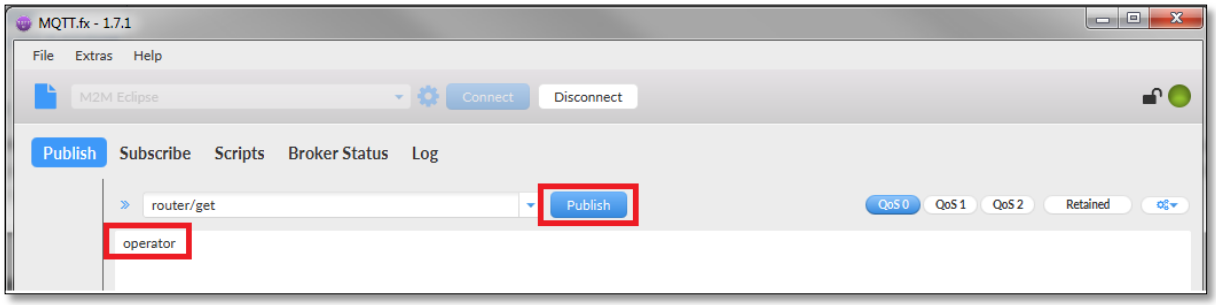
Subscribe:

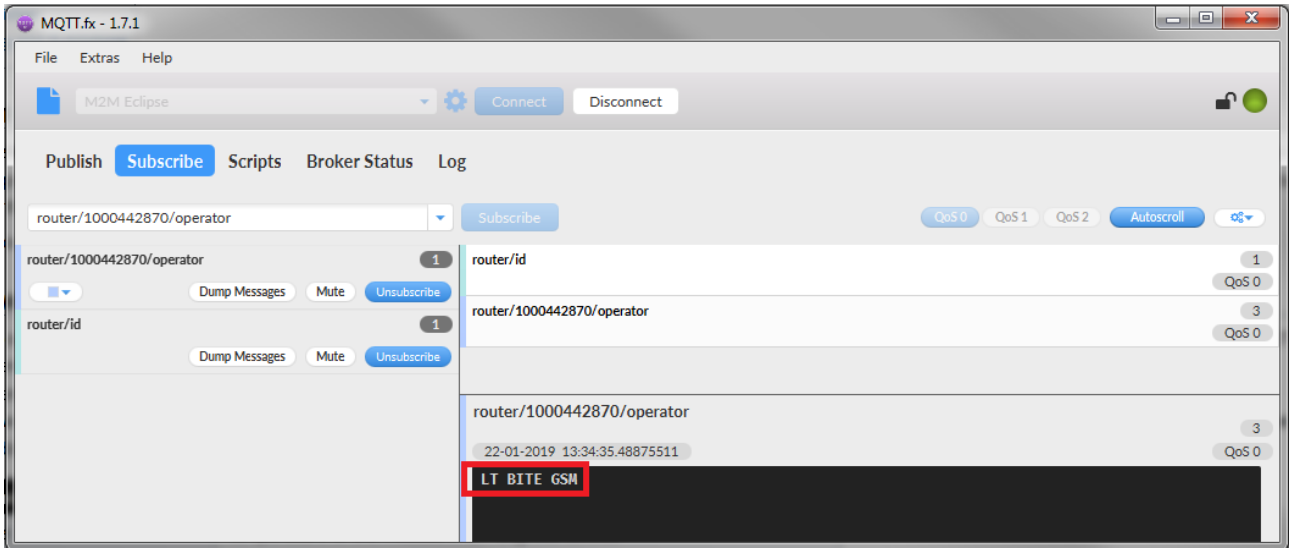


To get other parameters you will need to use routers serial number for authentication, example of sentence and usage:

- In ***"Subscribe"*** menu subscribe to ***"router/<serial number>/operator"*** parameter. Then publish query for "operator" parameter from ***"Publish"*** menu.






MQTT.fx - 1.7.1
File
Extras
Help
M2M Eclipse
Connect
Disconnect
Publish
Subscribe
Scripts
Broker Status
Log
router/1000442870/operator
Subscribe
QoS 0
QoS 1
QoS 2
Autoscroll
router/1000442870/operator
1
Dump Messages
Mute
Unsubscribe
router/id
1
Dump Messages
Mute
Unsubscribe
router/id
1
QoS 0
router/1000442870/operator
3
QoS 0
router/1000442870/operator
3
22-01-2019 13:34:35.48875511
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