How to send QMI with QMITestPro

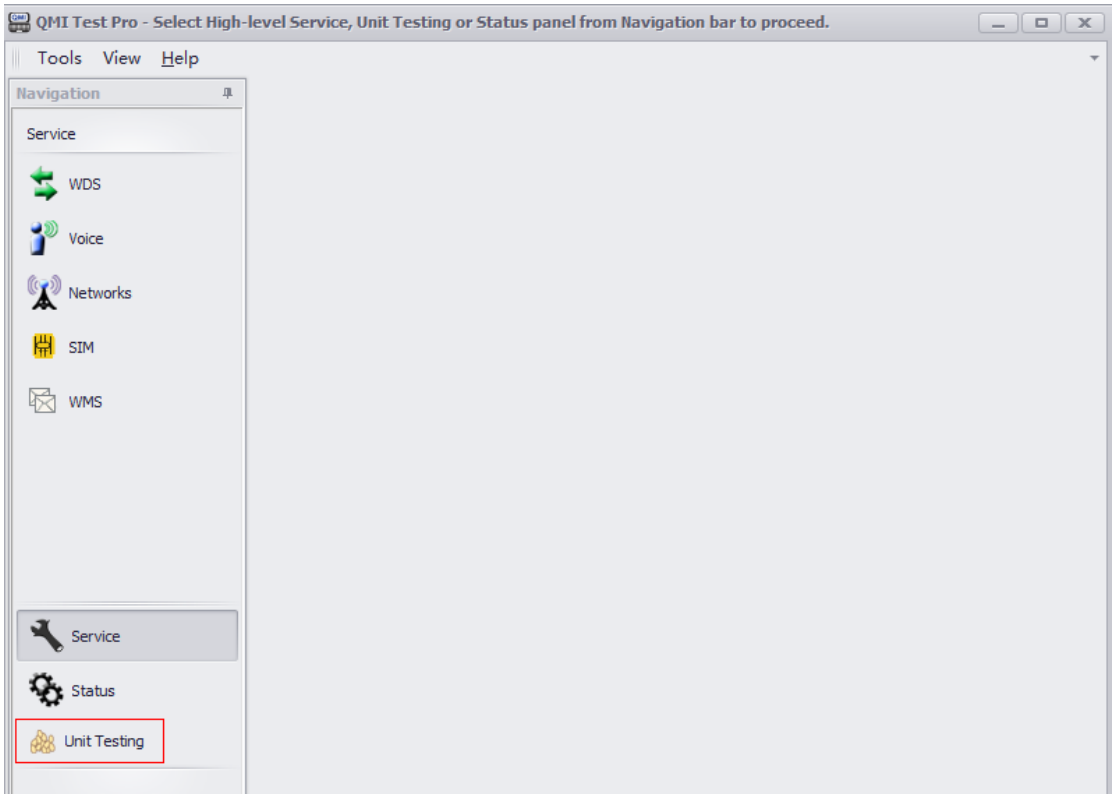
Preparation

1. Install the QMITestPro on your PC
2. Install test module USB driver on your PC
3. Power on module and connect the USB to PC.

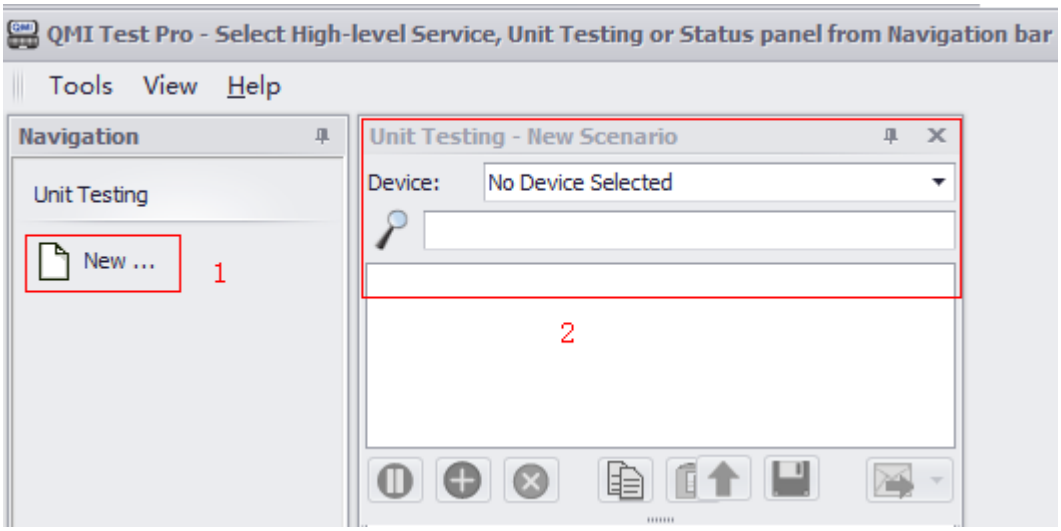
How to send QMI

Below will show an example that how to send QMI and check the QMI information from the QMI response. I will use temperature QMI as example.

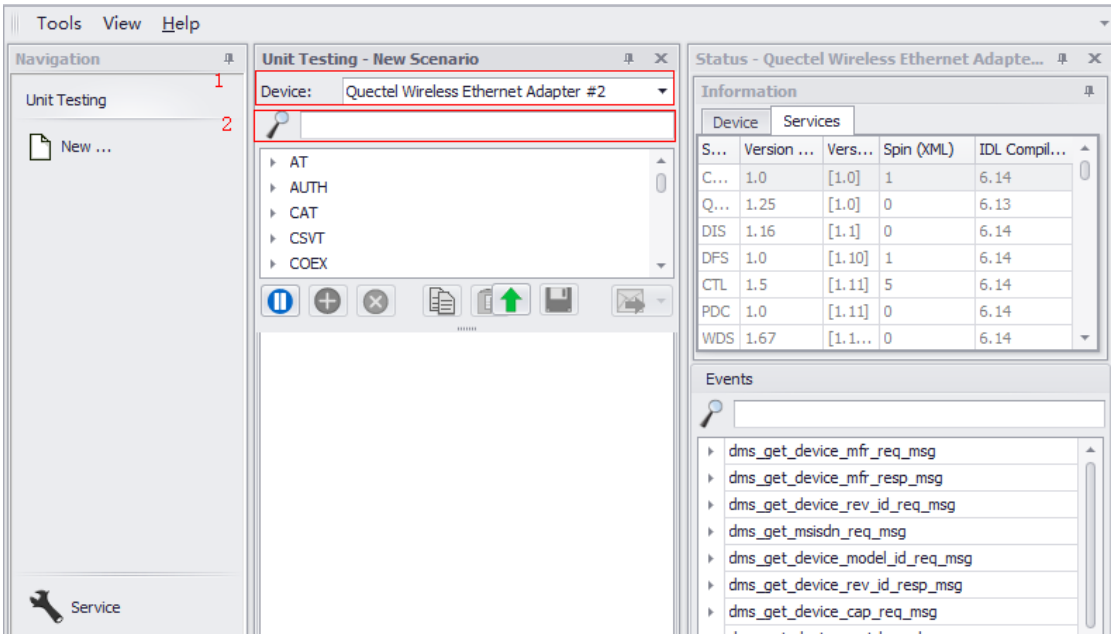
1. Open QMITestPro and you will see below window:



2. If you want to send QMI to module, please click the ” unit testing” -→ new….:



3. Select test device on step 1. Then you could search the QMI message from step 2:

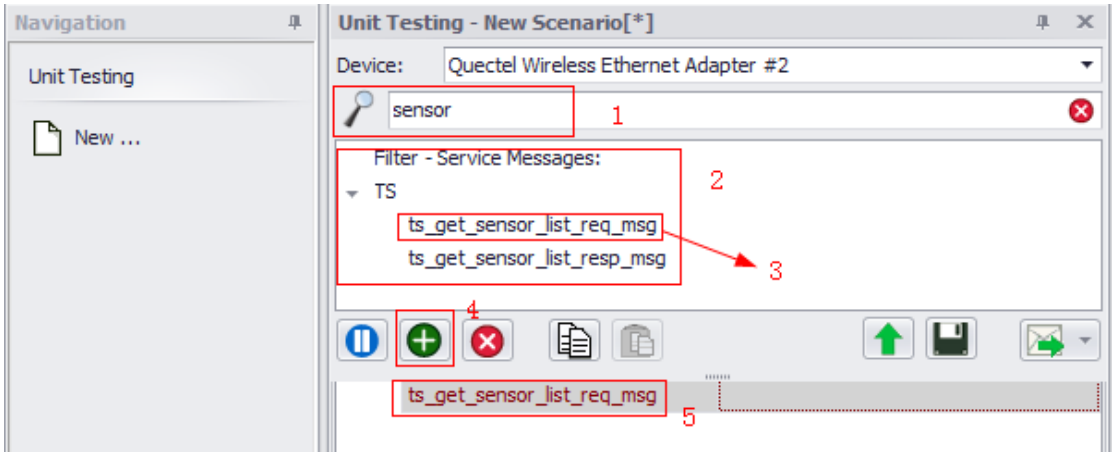


4. For temperature QMI,9x07 module support below QMI. You could check this from Qualcomm document:

- 3.1 QMI_TS_GET_SENSOR_LIST
- 3.2 QMI_TS_REGISTER_NOTIFICATION_TEMP
- 3.3 QMI_TS_TEMP_REPORT_IND

NOTE: if you want to test the QMI correctly, it is better you know QMI key words, otherwise it is hard to know which QMI you should send.

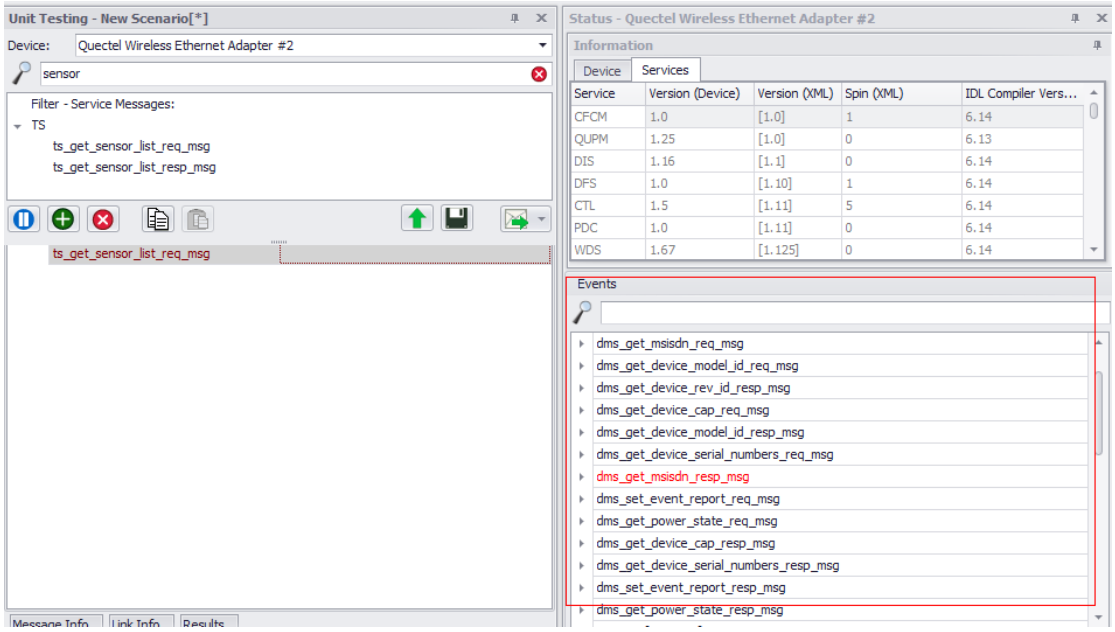
Such as temperature test, first we need to know how many sensors did module support and sensor ID, So input below key words to check the sensor information fist:



1) input the key words :"sensor"
2) QMITestPro will show the search result under the window
3) Only req QMI could send to module, so select this QMI
4) Click this button then add the QMI to send window,
5) After send successful, you will step 5 information.

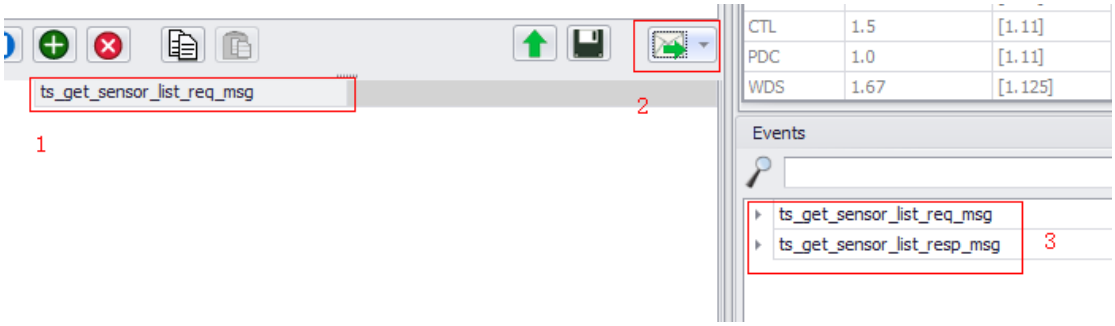
5. Send QMI and get the response

Before you send QMI, please clear the response window first:



Click the mouse right button---> clear all, then the window will show blank.

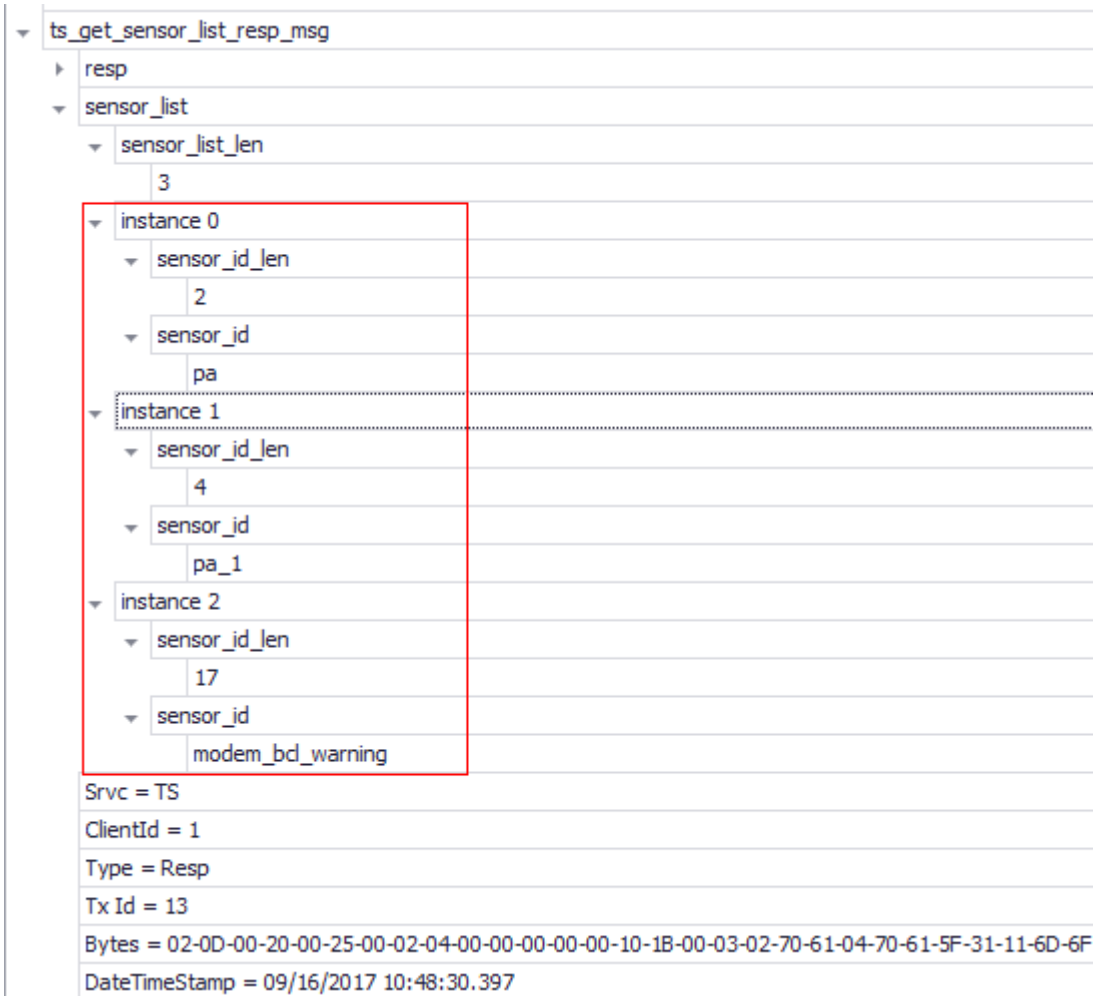
Then follow below step to send QMI command and get the result:



1) Select the QMI
2) Click this button
3) The sending and response from the module

6. Check the test result:

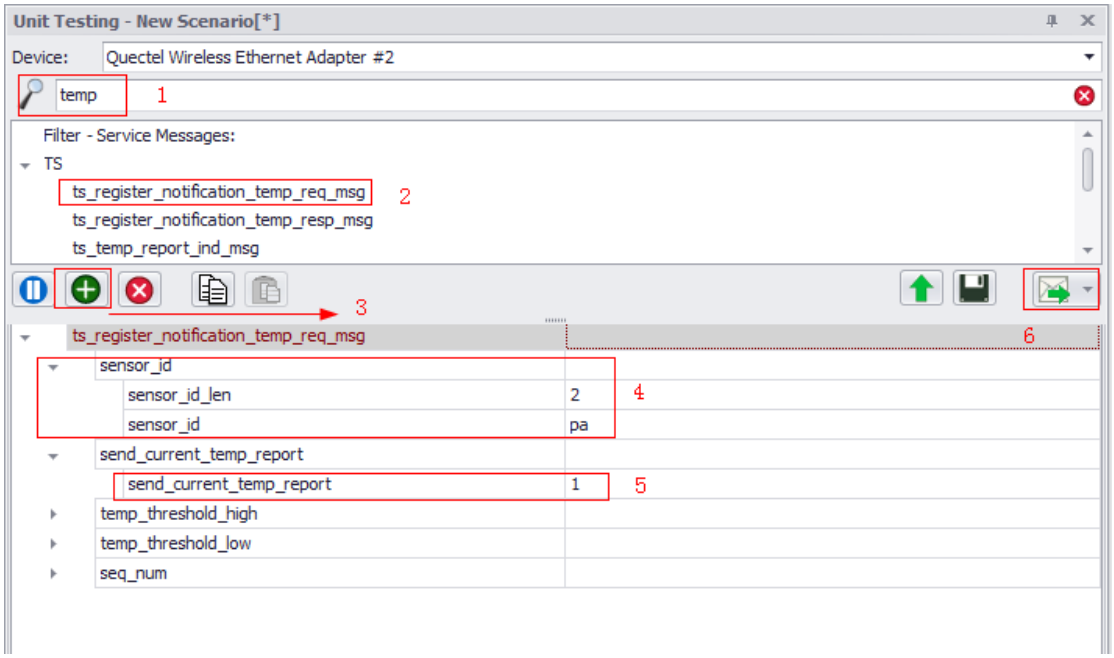
On the response menu, we could see module sensor detail information as below:
This module have three sensor, and the sensor id and sensor id len information as below :



When you query the sensor temperature, we need input the sensor id and sensor id len information.

7. Query the pa temperature

From above table, we found sensor id and sensor id len information as below:
sensor id len : 2
sensor id: pa



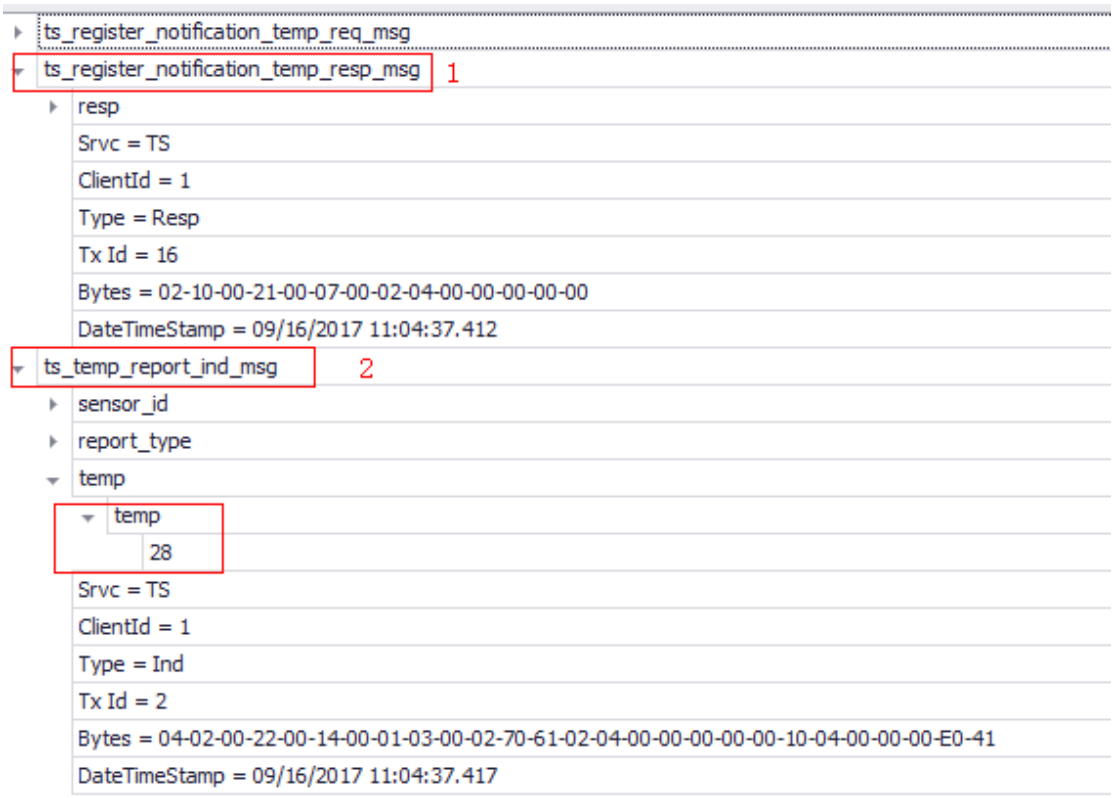
1) Input temp in the search window
2) Get the result and select the req QM
3) Add this command to sending window
4) On the qmi menu, input the sensor id len and sensor id
5) Input the report type: 1 which means query the current temperature
6) Sending QMI

8. Test result analysis

After sending this QMI message, you will get two response messages from the module:

1) rsrp message for sending QMI
2) Report ind message.

The result was in the report message. You could see the value was 28 for module pa.



You could follow this method to test the other QMI message.