How log Data for reverse engineering a serial Protocol

What you need

Serial Data Cable for your ECU

Laptop

**OEM Software for your ECU** 

Serial port monitor software <a href="https://www.eltima.com/products/serial-port-monitor/">https://www.eltima.com/products/serial-port-monitor/</a> (14 day trial will be sufficient)

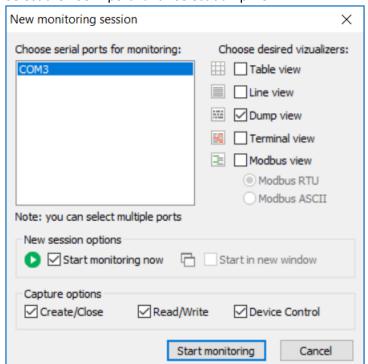
How to log the Data

3.

- 1. Connect Laptop with Serial cable to your ECU
- 2. Open Serial Port Monitor and select "new session"



4. Select the "COM port" and "select dump view "



- 6. Click "Start monitoring "
- 7. Now Start your car and open your ECU software and select to monitor the Live Data

8. The serialport monitor window should start filling with something like this

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□ Dump view

[11/02/2018 11:59:41] - Open port COM6 (C:\Repositories\build-PowertuneQMLGui-
[11/02/2018 11:59:41] Written data (COM6)
                                                    ÿÿï
    ff ff ef
[11/02/2018 11:59:41] Read data (COM6)
    10
[11/02/2018 11:59:41] Written data (COM6)
    5a 00 5a 01 5a 08 5a 0b 5a 0c 5a 0d 5a 0f 5a 11
                                                    Z.Z.Z.Z.Z.Z.Z.Z.
    5a 14 5a 15 5a 16 f0
                                                    Z.Z.Z.ð
[11/02/2018 11:59:41] Read data (COM6)
    a5 14 a5 15 a5 16 ff 03 00 ad 5b ff 03 00 ad 5b
                                                   ¥.¥.¥.ÿ..-[ÿ..-[
    ff 03 00 ae 5b ff 03 00 b0 5b ff 03 00 ae 5b ff
                                                   ÿ..®[ÿ..°[ÿ..®[ÿ
    03 00 bl 5b ff 03 00 bl 5b ff 03 00 b0 59 ff 03
                                                   ..±[ÿ..±[ÿ..°Yÿ.
    00 b2 59 ff 03 00 b0 59 ff 03 00 b3 59 ff 03 00
                                                    .ºYŸ..ºYŸ..³YŸ..
    b4 59 ff 03 00 b4 59 ff 03 00 b8 59 ff 03 00 b7
                                                    ´Yÿ..´Yÿ..,Yÿ...
    59 ff 03 00 b6 59 ff 03 00 b5 59 ff 03 00 b0 59
                                                   Yÿ..¶Yÿ..μYÿ..°Y
    ff 03 00 b2 59 ff 03 00 af 5b ff 03 00 b0 5b ff
                                                    ÿ..ºYÿ.. [ÿ..º[ÿ
                                                    ..°[ÿ..-Yÿ...ºYÿ.
    03 00 b0 5b ff 03 00 af 59 ff 03 00 b2 59 ff 03
    00 bl 5b ff 03 00 b3 5b ff 03 00 b4 5b ff 03 00
                                                   .±[ÿ..³[ÿ..′[ÿ..
    bl 59 ff 03 00 b4 59 ff 03 00 b0 5b ff 03 00 af
                                                   ±Yÿ..´Yÿ..°[ÿ..¨
    5b ff 03 00 af 5b ff 03 00 ad 5b ff 03 00 bl 5b [ÿ.. [ÿ.. - [ÿ.. ±[
    ff 03 00 ae 5b ff 03 00 bl 5b ff 03 00 b3 5b ff
                                                    ÿ...®[ÿ...±[ÿ...³[ÿ
    03 00 bl 59 ff 03 00 b3 59 ff 03 00 af 5b ff 03 ...±Yÿ...*Iÿ..
    00 bl 5b ff 03 00 b0 5b ff 03 00 af 59 ff 03 00
                                                    .±[ÿ..°[ÿ..¬Yÿ..
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- 10. If possible drive the car around the block while logging so I can also get a speed signal.
- 11. Now save the file and send the file to us

