

<b>Recipients :</b>	Stoneridge Network
<b>Release date :</b>	September 5 <sup>th</sup> , 2023
<b>Update Purpose :</b>	Initial release
<b>Object :</b>	SE5000 Smart 2 calibration

The new Smart 2 tachograph comes with some specificities which must be highlighted to workshop technicians and controllers.

### SE5000 Smart 2, calibration

#### How to read serial number via K-Line and CAN

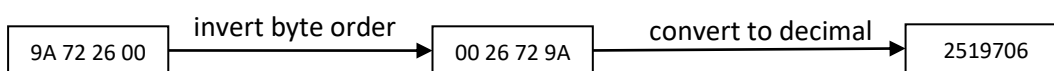
The Tachograph serial number is available through the back connector CAN, or front connector K-line connections by reading a former Smart 1 parameter - F18C, or the newly defined parameter - F9D4, per Annex 1C requirement CPR\_053. Both parameters follow Annex 1C paragraph 2.72 definition. However, contrarily to SE5000 Smart 1, the Most Significant Byte now is the first Byte.

The way the tachograph stores its serial number in the Memory and in the Workshop Card calibration records is correct. So, calibration software using the workshop card to define and print calibration reports and plaque will not be impacted by these changes.

#### 1. Procedure to get correct serial number via F9D4 parameter:

VU serial number 2519706 in F9D4.SerialNumber parameter will be reported into 4 bytes in hexadecimal values as 9A 72 26 00. A direct conversion to decimal will generate a decimal value 2.591.172.096.

However, inverting the bytes order to 00 26 72 9A, the conversion will generate the desired decimal value 2519706.



#### 2. Procedure to get correct serial number via F18C parameter:

VU serial number 2519706 in F18C parameter will be reported into 10 bytes in hexadecimal as 32 35 39 31 31 37 32 30 39 36. A direct conversion to ASCII String will generate a value "2591172096".

However, converting this value "2591172096" into hexadecimal into 4 bytes will produce 9A 72 26 00, which inverted order to 00 26 72 9A, the conversion will generate the desired decimal value 2519706

