Smart DTCO 4.1 for workshops
New Calibration Requirements

New regulations: Mobility Package 1.

From August 21, 2023, the second version second generation smart tachograph is mandatory for all newly registered vehicles. This new tachograph complies with the amendments of (EU) 799/2016 as described in Regulation (EU) 2021/1228.

The new tachograph also introduces adjustments to the calibration process and changes for the calibration certificate and the installation plate.

Workshops must now prepare for the mandatory retrofit of internationally operating vehicles using analogue and Annex 1B tachographs before the end of 2024. First generation smart tachographs must also be replaced before August 2025. To ensure that you can perform all relevant calibrations and to keep up to date with all the new requirements, you can take out a Workshop Tab 2 with a 3-year service agreement where all current and future software and licenses are automatically included.

The most important changes for workshops are indicated on the right. See also the timeline on the other side.

With all key DTCO 4.1 topics covered in the Tachograph training courses being delivered from our Head Office in Birmingham, both face-to-face and through distance learning platforms, as well as our DVSA approved eLearning course, Tachograph technicians will be prepared in time for the upcoming changes.

GNSS
- Same as Smart Tachograph V1 - OSNMA is checked in background, so no additional test required.
- During calibration, the drift of the clock must be checked using Workshop Tab via TCO Check
- Internal clock deviation < 5 minutes requires a periodic inspection (previously < 20 minutes). Applies to all Annex 1C tachographs.

Internal, independent motion sensor
- Internal functional test
- Manufacturer's recommended check using Workshop Tab

Bluetooth/ITS interface
- Internal functional test
- Manufacturer's recommended check using Workshop Tab

DRSC
- Same as Smart Tachograph V1 - no additional test required for DSRC

Updateable Tachograph
- During a Periodic Inspection the technician must check that the version identifier of the stored digital map and software are the most recent (update if necessary)
- Check to ensure latest DTCO firmware version installed (update if necessary)

New calibration records on printout
- **81** (VDO specific) - If the old GEN1 cards have been blocked on the device. Note: The blocking of the old GEN1 cards can no longer be reversed.
- **82** (VDO specific) - After coupling a motion sensor. Note: the calibration reason is not applied when a motion sensor is first paired. Will be overwritten.
- **83** (VDO specific) - After changing the serial number of an external DSRC module. Will be overwritten.

From 21 August 2023, a faulty SMART Tachograph V1 (DTCO 4.0 / 4.0e) must be replaced with a SMART Tachograph V2 (DTCO 4.1 or later in the future). – *awaiting confirmation that the DVSA will fully implement this*

Changes to installation plaque
- In addition to all information required for SMART Tachograph V1, the following information must be included on the installation (calibration) plaque:

"*the by-default load type associated to the vehicle*"

This should be Goods or Passengers; and have been entered at, or before, the initial calibration. If not entered it will appear as Undefined.

To calibrate/test the Smart Tachograph V2 (DTCO 4.1):
- Workshop Tab with software release 4.9 and matching license or higher*
- DSRC Meter*

  * or valid alternative