



**Commission Implementing Regulation (EU) 2016/799 as amended by
Implementing Regulations (EU) 2021/1228 and (EU) 2023/980**

Interoperability Certification N°. JRC_DTLab/A1-161/2023

Manufacturer	Continental Automotive Technologies GmbH Heinrich-Hertz-Strasse 45 78052 Villingen-Schwenningen GERMANY
Specimen under Test	DTCO 1381 Rel. 4.1
Functional certificate	KBA-F DTCO 1381 – 31/03/2023
Security certificate	BSI-DSZ-CC-1158-V2-2023 – 23/05/2023
Test Specifications:	Smart Tachograph version 2 Components Interoperability Test Specification Version 1.10 (Technical Report JRC128982 – April 2022)

Validity of this certificate:	6 months after registration date	requirements 449 and 453 of (EU) 2016/799
Public web site:	https://dte.jrc.ec.europa.eu	requirement 454 of (EU) 2016/799
Remarks :	The tested specimens have software release 04.01.25. At the end of the security evaluation, the software was updated to release 04.01.26. The evaluators determined that these changes do not impact the specified behavior of the DTCO 1381 Rel. 4.1 at the external interfaces, therefore the functional behavior at the external interfaces is the same for release 04.01.25 and release 04.01.26 of the software (cfr. attached letter from the security evaluation facility dated 10/05/2023 - Ares(2023)3326708).	

Technical Responsible
M. Gemo

Head of Unit
J-P. Nordvik



Interoperability has been demonstrated with the following components		
According to regulation (EU) 2016/799 amended by regulation (EU) 2021/1228 (Annex 1Cv2)	<i>Type Approval number</i>	<i>Result</i>
Smart tachograph Cards		
Thales - Digital Tachograph G2V2 / G2V2 V2.2.1.N on IFX CCI_000039H	JRC_DTLab/A3-156/2023 ¹	<input checked="" type="checkbox"/>
Vehicle Units		
<i>no other model available</i>		
According to regulation (EU) 2016/799 (Annex 1C)		
Smart tachograph Cards		
Gemalto – Smart Tachograph G2 on MultiApp V4.01	e4-0001-00	<input checked="" type="checkbox"/>
Idemia - Smart Tachograph G2 - IDeal Drive DT V3.0 Applet code v. 416304	e13-0001-00	<input checked="" type="checkbox"/>
STMicroelectronics - Smart Tachograph v3.0 – OS J-Tacho vl.2.6	e3-1003	<input checked="" type="checkbox"/>
STMicroelectronics – SmartTacho V3.1 – OS J-Tacho vl.3.1	JRC_DTLab/A5-147/2022 v2.0 ¹	<input checked="" type="checkbox"/>
Vehicle Units		
Continental Automotive GmbH - DTCO 1381 - Release 4.0e	e1-84-04	<input checked="" type="checkbox"/>
Stoneridge Electronics AB - SE5000 - 8 Revision G	e5-0002-06	<input checked="" type="checkbox"/>
Intellic GmbH – EFAS-4.10 – v5.00	e1-222-00	<input checked="" type="checkbox"/>
Other Components		
Motion Sensor: VDO 2185	e1-0002-00	<input checked="" type="checkbox"/>
Motion Sensor: Lesikar TACH3 - HW v02 / SW v03	e5-0100-v02	<input checked="" type="checkbox"/>
According to regulation (EC) 1360/2002 (Annex 1B)		
Tachograph Cards		
Gemalto - MultiApp ID Tachograph 36K	e13-28-01	<input checked="" type="checkbox"/>
Gemalto - MultiApp ID Tachograph 36K	e2-32	<input checked="" type="checkbox"/>
Gemalto - MultiApp ID Tachograph V1.3	e11-1002-01	<input checked="" type="checkbox"/>
Giesecke & Devrient - STARCOS 3.4 ID Tachograph C1	e1-216	<input checked="" type="checkbox"/>
Giesecke & Devrient - STARCOS 3.6 ID Tachograph P1	e1-238	<input checked="" type="checkbox"/>
Idemia – IDeal Drive DT V3.0 Applet code version 416304	e1-242-00	<input checked="" type="checkbox"/>
Morpho - ORGA Tachograph N Micardo v1.0	e1-191	<input checked="" type="checkbox"/>
Morpho - MICARDO Tachograph V3.6	e1-212	<input checked="" type="checkbox"/>
Morpho - Morpho Haarlem Tachograph V1.0	e1-237	<input checked="" type="checkbox"/>
Thales – MultiApp V4.0.1	e4-0001-00	<input checked="" type="checkbox"/>
Trueb - TCOS v1.0 Release 2	e1-182-04	<input checked="" type="checkbox"/>
Trueb - Tru/cos tacho v1.1	e1-232	<input checked="" type="checkbox"/>
Vehicle Units		
Actia - SMARTACH STDII - version 6.11	e2-25	<input checked="" type="checkbox"/>
Continental Automotive GmbH - DTCO 1381 - Release 2.2	e1-84-20	<input checked="" type="checkbox"/>
Continental Automotive GmbH - DTCO 1381 - Release 3.0	e1-84-24	<input checked="" type="checkbox"/>
Intellic GmbH – EFAS-4.8 - v03.50	e1-222	<input checked="" type="checkbox"/>
Stoneridge Electronics AB - SE5000 - Revision 7.6	e5-0002	<input checked="" type="checkbox"/>
Pars Ar-Ge Ltd - DTC 101 - Version 1.1	e37-0004	<input checked="" type="checkbox"/>
ASELSAN - STC 8250- Version 1.1	e37-0007	<input checked="" type="checkbox"/>
ASELSAN - STC 8255- Version 1.0	e37-0008	<input checked="" type="checkbox"/>

¹ Interoperability certificate number, waiting for type approval number.



<i>Other Components</i>		
Motion Sensor: Actia IS2000 LR5-R1.2	e2-26	<input checked="" type="checkbox"/>
Motion Sensor: VDO KITAS 2171	e1-175-06	<input checked="" type="checkbox"/>
Motion Sensor: VDO KITAS 2171	e1-175-07	<input checked="" type="checkbox"/>
Motion Sensor: Lesikar TACH2 HW version 04 and SW version 02	e5-0101	<input checked="" type="checkbox"/>
Motion Sensor: BogArt DTMS V01	e20-1	<input checked="" type="checkbox"/>