

# Commission Implementing Regulation (EU) 2016/799

of 18 March 2016

implementing Regulation (EU) No 165/2014 of the European Parliament and of the Council laying down the requirements for the construction, testing, installation, operation and repair of tachographs and their components

## ANNEX I C

Requirements for construction, testing, installation, and inspection

### Appendix 15

#### MIGRATION: MANAGING THE CO-EXISTENCE OF EQUIPMENT GENERATIONS

##### 1.DEFINITIONS

For the purposes of this Appendix, the following definitions are used.

**smart tachograph system**

as defined by this Annex (chapter 1: definition bbb);

**first generation tachograph system**

as defined by this Regulation (article 2: definition 1);

**second generation tachograph system**

as defined by this Regulation (article 2: definition 7);

**introduction date**

as defined by this Annex (chapter 1: definition ccc);

**Intelligent Dedicated Equipment (IDE)**

equipment used to perform data downloading, as defined in Appendix 7 of this Annex.

##### 2.GENERAL PROVISIONS

###### 2.1. Overview of the transition

The preamble of this Annex provides an overview of the transition between the first and the second generation tachograph systems.

In addition to the provisions of this preamble:

first generation motion sensors will not be interoperable with second generation vehicle units.

second generation motion sensors will start to be installed in vehicles at the same time as second generation vehicle units.

data download and calibration equipment will need to evolve, in order to support use of both generation of recording equipment and tachograph cards.

## **2.2. Interoperability between VU and cards**

It is understood that first generation tachograph cards are interoperable with first generation vehicle units in compliance with Annex IB to Regulation (EEC) No 3821/85 as adapted by Appendix 27-B-4-2 of Annex 27 of the TGEU, while second generation tachograph cards are interoperable with second generation vehicle units in compliance with Annex IC to this Regulation as adapted by Appendix 27-B-4-4 of Annex 27 to the TGEU. In addition, the requirements below shall apply.

MIG\_001 Except as provided for in requirement MIG\_004 and MIG\_005, first generation tachograph cards may continue to be used in second generation vehicle units until their end of validity date. Their holders may however ask for their replacement by second generation tachograph cards as soon as they are available.

MIG\_002 Second generation vehicle units shall be able to use any valid first generation driver, control and company card inserted.

MIG\_003 This capability may be suppressed once and forever in such vehicle units by workshops, so that first generation tachograph cards cannot be accepted anymore. This may only be done after the European Commission has launched a procedure aiming to request workshops to do so, for example during each periodic inspection of tachograph.

MIG\_004 Second generation vehicle units shall only be able to use second generation workshop cards.

MIG\_005 For determining the mode of operation, second generation vehicle units shall only consider the types of the valid cards inserted, regardless of their generations.

MIG\_006 Any valid second generation tachograph card shall be able to be used in first generation vehicle units exactly the same manner as a first generation tachograph card of the same type.

## **2.3. Interoperability between VU and MS**

It is understood that first generation motion sensors are interoperable with first generation vehicle units, while second generation motion sensors are interoperable with second generation vehicle units. In addition, the requirements below shall apply.

MIG\_007 Second generation vehicle units will not be able to be paired and used with first generation motion sensors.

MIG\_008 Second generation motion sensors may be paired and used with second generation vehicle units only, or with both generations of vehicle units.

## 2.4. Interoperability between vehicle units, tachograph cards and equipment for data download

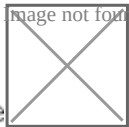
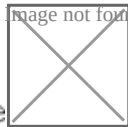
MIG\_009 Equipment for data download may be used with one generation only of vehicle units and tachograph cards, or with both.

### 2.4.1 Direct card download by IDE

MIG\_010 Data shall be downloaded by IDE from tachograph cards of one generation inserted in their card readers, using the security mechanisms and the data download protocol of this generation, and downloaded data shall have the format defined for this generation.

MIG\_011 To allow drivers' control by non EU control authorities, it shall also be possible to download second generation driver (and workshop) cards exactly the same manner as 1st generation drivers (and workshop) cards. Such download shall include:

non signed EFs IC and ICC (optional),

non signed EFs (1st generation)  **Card\_Certificate** and  **CA\_Certificate** ,

the other application data EFs (within DF Tachograph) requested by the first generation card download protocol. This information shall be secured with a digital signature, according to the first generation security mechanisms.

Such download shall not include application data EFs only present in second generation driver (and workshop) cards (application data EFs within DF Tachograph\_G2).

### 2.4.2 Card download through a vehicle unit

MIG\_012 Data shall be downloaded from a second generation card inserted in a first generation vehicle unit using the first generation data download protocol. The card shall answer to the vehicle unit commands exactly the same manner as a first generation card and downloaded data shall have the same format as data downloaded from a first generation card.

MIG\_013 Data shall be downloaded from a first generation card inserted in a second generation vehicle unit using the data download protocol defined in Appendix 7 of this Annex. The vehicle unit shall send commands to the card exactly the same manner as a first generation vehicle unit, and downloaded data shall respect the format defined for first generation cards.

### 2.4.3 Vehicle unit download

MIG\_014 Outside the frame of drivers' control by non EU control authorities, data shall be downloaded from second generation vehicle units using the second generation security mechanisms, and the data download protocol specified in Appendix 7 of this Annex.

MIG\_015 To allow drivers' control by non EU control authorities, it may optionally also be possible to download data from second generation vehicle units using the first generation security mechanisms. Downloaded data shall then have the same format as data downloaded from a first generation vehicle unit.

This capability may be selected through commands in the menu.

## 2.5. Interoperability between VU and calibration equipment

MIG\_016 Calibration equipment shall be able to perform calibration of each generation of tachograph, using the calibration protocol of this generation. Calibration equipment may be used with one generation only of tachograph, or with both.

## 3. MAIN STEPS DURING THE PERIOD BEFORE THE INTRODUCTION DATE

MIG\_017 Test keys and certificates shall be available to manufacturers at the latest **30 months** before the introduction date.

MIG\_018 Interoperability tests shall be ready to start if requested by manufacturers at the latest **15 months** before the introduction date.

MIG\_019 Official keys and certificates shall be available to manufacturers at the latest **12 months** before the introduction date.

MIG\_020 Party shall be able to issue second generation workshop cards at the latest **3 months** before the introduction date.

MIG\_021 Party shall be able to issue all types of second generation tachograph cards at the latest **1 month before the introduction date**.

## 4. PROVISIONS FOR THE PERIOD AFTER THE INTRODUCTION DATE

MIG\_022 After the introduction date, Party shall only issue second generation tachograph cards.

MIG\_023 Vehicle units/motion sensors manufacturers shall be allowed to produce first generation vehicle units/motion sensors as long as they are used in the field, so that malfunctioning components can be replaced.

MIG\_024 Vehicle units/motion sensors manufacturers shall be allowed to request and obtain type approval maintenance of first generation vehicle units/motion sensors types already type approved.