This version is out of date

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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 4

PRINTOUTS

1.GENERALITIES

Each printout is built up by chaining various data blocks, possibly identified with a block identifier.

A data block contains one or more records, possibly identified with a record identifier.

PRT_001

When a block identifier immediately precedes a record identifier, the record identifier is not printed.

PRT_002

In the case where a data item is unknown, or must not be printed for data access rights reasons, spaces are printed instead.

PRT_003

If the content of a complete line is unknown, or need not to be printed, then the complete line is omitted.

PRT_004

Numerical data fields are printed right aligned, with a space separator for thousands and millions, and without leading zeros.

PRT_005

String data fields are printed left aligned and filled up with spaces to data item length, or truncated to data item length when needed (names and addresses).

PRT_006

In case of a line-break due to a long text a special character (dot at middle line-height, '•') should be printed as first character in the new line.

2.DATA BLOCKS SPECIFICATION

In this chapter the following format notation conventions have been used:

Characters printed in **bold** denote plain text to be printed (printing remains in normal characters),

Normal characters denote variables (pictograms or data) to be replaced by their values for printing,

Variable names have been padded with underscores to show the data item length available for the variable,

Dates are specified with a 'dd/mm/yyyy' (day, month, year) format. A 'dd.mm.yyyy' format may also be used,

The term 'card identification' denotes the composition of: the type of card through a card pictograms combination, the card issuing Member State code, a forward slash character and the card number with the replacement index and the renewal index separated with a space:

P [Image not found or type unknown]	x x x /	x x x x x x x x x x x x x x	x		x
Card Pictogram combination	Issuing Member State code	First 14 characters of card number (possibly including a consecutive index)		Replacement index	Renewal index

PRT_007Printouts shall use the following data blocks and/or data records, in accordance with the following meanings and formats:

[Image not found or type unknown] [Image not found or type unknown] [Image not found or type unknown] [Image not found or type unknown] [Image not found or type unknown] [Image not found or type u

Block or record number Meaning	Data Format
1 ***Date and time at which the document is printed.***	▼ dd/mm/yyyy hh:mm **(UTC)**
2 ***Type of printout.*** Block identifier Printout pictogram combination (see App. 3), Speed limiting device setting (Over speeding printout only)	----------▼---------- Picto xxx **km/h**
3 ***Card holder identification.*** Block identifier. P= people pictogram Card holder surname Card holder first name(s) (if any) Card identification Card expiry date (if any) and Card generation number (GEN 1 or GEN 2) (*)	----------P---------- P Last_Name_____ First_Name_____ Card_Identification_____ dd/mm/yyyy - GEN 2

In the case where the card is a non-personal card, and holds no card holder surname, the company or workshop or control body name shall be printed instead.

(*) The card generation number can only be printed by smart tachograph.

4 ***Vehicle identification.*** Block identifier VIN Registering Member State and VRN	----------🚗---------- 🚗 VIN_____ Nat/VRN_____
5 ***VU identification.*** Block identifier VU manufacturer's name VU part number VU generation number (*)	----------⊟---------- ⊟ VU_Manufacturer_____ VU_Part_Number__ GEN 2

(*) The card generation number can only be printed by smart tachograph.

6 ***Last calibration of the tachograph*** Block identifier Workshop name Workshop card identification Date of the calibration	----------🔧---------- 🔧 Last_Name_____ Card_Identification_____ 🔧 dd/mm/yyyy

Image not found or type unknown

7 ***Last control (by a control officer)***

Block identifier
Controller's card identification
Control date, time and type

```
----------▫----------
Card_Identification_____
▫ dd/mm/yyyy hh:mm ppppp
```

Type of the control: Up to five pictograms. The type of control can be (a combination) of:
▬: Card downloading, ↧: VU downloading, ▼: printing, □: Displaying, ↑: Roadside calibration checking

8 ***Driver activities stored on a card in order of occurrence***

Block identifier
Enquiry date (calendar day subject of the printout) + Daily card presence counter

```
----------⊙----------
    dd/mm/yyyy  xxx
```

8a *Out of scope condition in the beginning of this day* (leave blank if no out of scope condition open)

```
----------OUT----------
```

8.1 *Period during which the card was not inserted*

8.1a Record identifier (start of period)
8.1b *Unknown period*. Start time, duration
8.1c *Activity manually entered*.
Activity pictogram, start time, duration

```
  -------------------
?       hh:mm hhhmm
A       hh:mm hhhmm
```

8.2 *Card insertion in slot S*

Record identifier; S = Slot pictogram
Vehicle registering Member State and VRN
Vehicle odometer at card insertion

```
  ---------S---------
A Nat/VRN___________
  x xxx xxx km
```

8.3 *Activity (while card was inserted)*

Activity pictogram, start time, duration, crew status (crew pictogram if CREW, blanks if SINGLE).

```
A       hh:mm hhhmm ⊙⊙
```

8.3a *Specific condition*. Time of entry, specific condition pictogram (or pictogram combination).

```
        hh:mm ---pppp---
```

8.4 *Card withdrawal*

Vehicle odometer and distance travelled since last insertion for which odometer is known

```
  x xxx xxx km; x xxx km
```

9 ***Driver activities stored in a VU per slot in chronological order***

Block identifier
Enquiry date (calendar day subject of the printout)
Vehicle odometer at 00:00 and 24:00

```
----------⊙----------
       dd/mm/yyyy
x xxx xxx - x xxx xxx km
```

10 ***Activities carried in slot S***

Block identifier

```
----------S----------
```

10a *Out of scope condition in the beginning of this day* (leave blank if no out of scope condition open)

```
----------OUT----------
```

10.1 *Period where no card is inserted in slot S*

Record identifier.
No Card inserted
Vehicle odometer at beginning of period

```
  -------------------
⊙▬---
  x xxx xxx km
```

10.2 *Card insertion*

Card insertion Record identifier
Driver's name

```
  -------------------
⊙ Last_Name_____________
```

	Driver's first name	First_Name_____
	Driver's Card identification	Card_Identification_____
	Card expiry date (if any) and Card generation number (GEN 1 or GEN 2) (*)	dd/mm/yyyy - GEN 2
	Registering MS and VRN of previous vehicle used	Nat/VRN_____
	Date and time of card withdrawal from previous vehicle	dd/mm/yyyy hh:mm
	Blank line	
	Vehicle odometer at card insertion, Manual entry of driver activities flag (M if yes, Blank if No).	x xxx xxx **km** M
	If no card insertion of a driver card happened on the day for which the printout is done then for block 10.2 the odometer data reading from the last available card insertion before that day shall be used.	
10.3	*Activity*	
	Activity pictogram, start time, duration, crew Status (crew pictogram if CREW, blanks if SINGLE).	A hh:mm hh**h**mm ⊙⊙
10.3a	*Specific condition*. Time of entry, specific condition pictogram (or pictogram combination).	hh:mm ---pppp---
10.4	*Card withdrawal or End of 'No Card' period*	
	Vehicle odometer at card withdrawal or at end of 'no card' period and distance travelled since insertion, or since beginning of the 'No Card' period.	x xxx xxx **km**; x xxx **km**

(*) The card generation number can only be printed by smart tachograph.

11	***Daily summary***	
	Block identifier	----------Σ----------
11.1	***VU summary of periods without card in driver slot***	
	Block identifier	1⊙▣---
11.2	***VU summary of periods without card in co-driver slot***	
	Block identifier	2⊙▣---
11.3	***VU daily summary per driver***	
	Record identifier	----------
	Driver's surname	⊙ Last_Name_____
	Driver's first name(s)	First_Name_____
	Driver's card identification	Card_Identification_____
▸(1) 11.4	*Entry of place where a daily work period begins and/or ends*	
	pi=location begin / end pictogram, time, country, region, longitude of the recorded position latitude of the recorded position timestamp when position was determined Odometer	pihh:mm Cou Reg lon ±DDD°MM.M' lat ± DD°MM.M' hh:mm x xxx xxx **km** ◂
▸(2) 11.5	*Entry of place where a daily work period begins and/or ends*	
	and after 3 hours continuous driving time time longitude of the recorded position latitude of the recorded position timestamp when position was determined Odometer	pihh:mm lon ± DDD°MM.M' lat ± DD°MM.M ' hh:mm x xxx xxx **km** ◂
11.6	*Activity totals (from a card)*	
	Total driving duration, distance travelled	⊙ hh**h**mm x xxx **km**
	Total working and availability duration	⚒ hh**h**mm ⧈ hh**h**mm
	Total resting and unknown duration	⊢ hh**h**mm ? hh**h**mm
	Total duration of crew activities	⊙⊙ hh**h**mm
11.7	*Activity totals (periods without card driver slot)*	
	Total driving duration, distance travelled	⊙ hh**h**mm x xxx **km**
	Total working and availability duration	⚒ hh**h**mm ⧈ hh**h**mm

11.8 *Activity totals (periods without card co-driver slot)*

Total working and availability duration

Total resting duration

```
⚒ hhhmm   ⧈ hhhmm
⏤ hhhmm
```

11.9 *Activity totals (per driver both slots included)*

Total driving duration, distance travelled

Total working and availability duration

Total resting duration

Total duration of crew activities

```
◎ hhhmm   x xxx km
⚒ hhhmm   ⧈ hhhmm
⏤ hhhmm
◎◎ hhhmm
```

When a daily printout is required for the current day, daily summary information is computed with available data at the time of the printout.

12 *Events and/or faults stored on a card*

12.1 Block identifier last 5 'Events and Faults' from a card

```
----------!×▬----------
```

12.2 Block identifier all recorded 'Events' on a card

```
----------!▬----------
```

12.3 Block identifier all recorded 'Faults' on a card

```
----------×▬----------
```

12.4 *Event and/or Fault record*

Record identifier

Event/fault pictogram, record purpose, date time of start,

Additional event/fault code (if any), duration

Registering Member State & VRN of vehicle in which the event or fault occurred

```
  --------------------
Pic (p) dd/mm/yyyy hh:mm
!xx                 hhhmm
🅰 Nat/VRN__________
```

13 *Events and/or faults stored or on-going in a VU*

13.1 Block identifier last 5 'Events and Faults' from VU

```
----------!×🅰----------
```

13.2 Block identifier all recorded or on-going 'Events' in a VU

```
----------!🅰----------
```

13.3 Block identifier all recorded or on-going 'Faults' in a VU

```
----------×🅰----------
```

13.4 *Event and/or fault record*

Record identifier

Event/fault pictogram, record purpose, date time of start,

Additional event/fault code (if any), No of similar events this day, duration

Identification of the cards inserted at start or end of the event or fault (up to 4 lines without repeating twice the same card numbers)

Case where no card was inserted

Manufacturer specific data

```
  --------------------
Pic (p) dd/mm/yyyy hh:mm
!xx     (xxx)       hhhmm

Card_Identification_____
Card_Identification_____
Card_Identification_____
Card_Identification_____
 ▬---
< Literal><ErrorCode>
```

The record purpose (p) is a numerical code explaining why the event or fault was recorded, coded in accordance with the data element `EventFaultRecordPurpose`.

The `Literal` is a tachograph manufacturer specific literal with 12 characters maximum.

The `ErrorCode` is a tachograph manufacturer specific error code with 12 characters maximum.

14 ***VU Identification***

Block identifier
VU manufacturer name
VU manufacturer address
VU part number
VU approval number
VU serial number
VU year of manufacture
VU software version and installation date

```
----------B-----------
B Name_____________________
  Address____________________
  PartNumber_______
  Apprv_____________
  S/N_____
  yyyy
  V xxxx dd/mm/yyyy
```

15 ***Sensor identification***

Block identifier

```
----------Л-----------
```

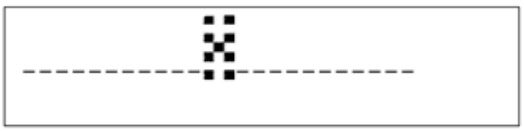
15.1 *Pairing record*

Sensor serial number
Sensor approval number
Sensor pairing date

```
Л S/N_____
  Apprv_____________
  dd/mm/yyyy  hh:mm
```

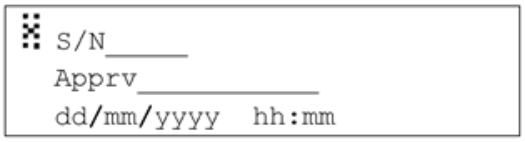
16 ***GNSS identification***

Block identifier



16.1 *Coupling record*

External GNSS facility serial number
External GNSS facility approval number
External GNSS facility coupling date



17 ***Calibration data***

Block identifier

```
----------T-----------
```

17.1 *Calibration record*

Record identifier
Workshop having performed the calibration
Workshop address
Workshop card identification
Workshop card expiry date
Blank line
Calibration date + calibration purpose
VIN
Registering Member State & VRN
Characteristic coefficient of vehicle
Constant of the recording equipment
Effective circumference of wheel tyres
Size of tyres mounted
Speed limiting device setting
Old and new odometer values

```
  ------------------
T Workshop_name_________
  Workshop_address______
Card_Identification_____
  dd/mm/yyyy

T dd/mm/yyyy  (p)
A VIN_______________
  Nat/VRN___________
w xx xxx Imp/km
k xx xxx Imp/km
l xx xxx mm
● TyreSize_______
> xxx  km/h
x xxx xxx - x xxx xxx km
```

The calibration purpose (p) is a numerical code explaining why these calibration parameters were recorded, coded in accordance with the data element `CalibrationPurpose`.

18 ***Time adjustment***

Block identifier

```
----------◷----------
```

18.1 *Time adjustment record*

Record identifier

Old date and time

New date and time

Workshop having performed the time adjustment

Workshop address

Workshop card identification

Workshop card expiry date

```
  --------------------
!◷ dd/mm/yyyy  hh:mm
 ◷ dd/mm/yyyy  hh:mm
⍑ Workshop_name_________
  Workshop_address______
Card_Identification_____
  dd/mm/yyyy
```

19 ***Most recent event and Fault recorded in the VU***

Block identifier

Most recent event date time

Most recent fault date time

```
----------!×A----------
! dd/mm/yyyy  hh:mm
× dd/mm/yyyy  hh:mm
```

20 ***Over speeding control information***

Block identifier

Date and time of last OVER SPEEDING CONTROL

Date/time of first over speeding and number of over speeding events since

```
----------»»----------
»▫dd/mm/yyyy hh:mm
»»dd/mm/yyyy hh:mm (nnn)
```

21 ***Over speeding record***

21.1 Block identifier 'First over speeding after the last calibration'

```
--------»»⍑---------
```

21.2 Block identifier 'The 5 most serious over the last 365 days'

```
-------»»(365)------
```

21.3 Block identifier 'The most serious for each of the last 10 days of occurrence'

```
-------»»(10)-------
```

21.4 Record identifier

Date time and duration

Max and average speeds, No. of similar events this day

Driver's surname

Driver's first name(s)

Driver card identification

```
  --------------------
»»dd/mm/yyyy hh:mm hhhmm
  xxx km/h xxx km/h(xxx)
⊙ Last_Name____________
  First_Name____________
Card_Identification_____
```

21.5 If no over speeding record exists in a block

```
»»---
```

22 ***Hand-written information***

Block identifier

22.1 Control Place

22.2 Controller's signature

22.3 From time

22.4 To time

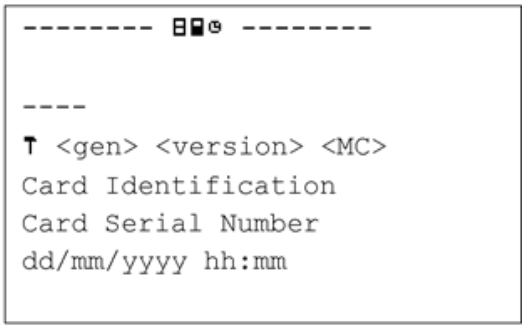
22.5 Driver's signature

```
------------------------
▫• ..................
▫  ..................
◷→ ..................
→◷ ..................
⊙  ..................
```

'Hand-written information'; Insert enough blank lines above a hand-written item, to be able to actually write the required information or to put a signature.

23	***Most recent cards inserted in VU***
	Block identifier
23.1	Inserted Card
	Record identifier
	Type of card, Generation, Version, Manufacturer (*)
	Card Identification
	Card Serial Number
	Date and time of last card insertion

(*) (everything in one line)
with
type of card: Pictogram, one character + space
gen: GEN1 or GEN2, 4 characters + space
version: up to 10 characters
MC: manufacturer code, 3 characters



3.PRINTOUT SPECIFICATIONS

In this chapter the following notation conventions have been used:

N	Print block or record number N
N	Print block or record number N repeated as many times as necessary
X/Y	Print blocks or records X and/or Y as needed, and repeating as many times as necessary.

3.1. **Driver Activities from Card Daily Printout**

PRT_008The driver activities from card daily printout shall be in accordance with the following format:

1	Date and time at which the document is printed
2	Type of printout
3	Controller identification (if a control card is inserted in the VU)
3	Driver identification (from card subject of the printout + GEN)
4	Vehicle identification (vehicle from which printout is taken)
5	VU identification (VU from which printout is taken + GEN)
6	Last calibration of this VU
7	Last control the inspected driver has been subject to
8	Driver activities delimiter
8a	Out of scope condition in the beginning of this day
8.1a/8.1b/8.1c/8.2/8.3/8.3a/8.4	Activities of the driver in order of occurrence
11	Daily summary delimiter
11.4	Places entered in chronological order

11.5	Positions after 3 hours accumulated driving time in chronological order
11.6	Activity totals
12.1	Events or faults from card delimiter
12.4	Event/Fault records (Last 5 events or faults stored in the card)
13.1	Events or faults from VU delimiter
13.4	Event/Fault records (Last 5 events or faults stored or on-going in the VU)
22.1	Control place
22.2	Controller's signature
22.5	Driver's signature

3.2. **Driver Activities from VU Daily Printout**

PRT_009The driver activities from VU daily printout shall be in accordance with the following format:

1	Date and time at which the document is printed
2	Type of printout
3	Card holder identification (for all cards inserted in VU + GEN)
4	Vehicle identification (vehicle from which printout is taken)
5	VU identification (VU from which printout is taken + GEN)
6	Last calibration of this VU
7	Last control on this tachograph
9	Driver activities delimiter
10	Driver slot delimiter (slot 1)
10a	Out of scope condition in the beginning of this day
10.1 / 10.2 / 10.3 / 10.3a / 10.4	Activities in chronological order (driver slot)
10	Co-driver slot delimiter (slot 2)
10a	Out of scope condition in the beginning of this day
10.1 / 10.2 / 10.3 / 10.3a / 10.4	Activities in chronological order (co-driver slot)
11	Daily summary delimiter
11.1	Summary of periods without card in driver slot
11.4	Places entered in chronological order
11.5	Positions after 3 hours accumulated driving time in chronological order
11.7	Activity totals
11.2	Summary of periods without card in co-driver slot
11.4	Places entered in chronological order

11.5		Positions after 3 hours accumulated driving time in chronological order
11.8		Activity totals
11.3		Summary of activities for a driver both slots included
	11.4	Places entered by this driver in chronological order
	11.5	Positions after 3 hours accumulated driving time in chronological order
11.9		Activity totals for this driver
13.1		Events faults delimiter
13.4		Event/Fault records (Last 5 events or faults stored or on-going in the VU)
22.1		Control place
22.2		Controller’s signature
22.3		From time (space available for a driver without a card to indicate
22.4		To time which periods are relevant to himself)
22.5		Driver's signature

3.3. **Events and Faults from Card Printout**

PRT_010The events and faults from card printout shall be in accordance with the following format:

1	Date and time at which the document is printed
2	Type of printout
3	Controller identification (if a control card is inserted in the VU + GEN)
3	Driver identification (from card subject of the printout)
4	Vehicle identification (vehicle from which printout is taken)
12.2	Events delimiter
12.4	Event records (all events stored on the card)
12.3	Faults delimiter
12.4	Fault records (all faults stored on the card)
22.1	Control place
22.2	Controller's signature
22.5	Driver's signature

3.4. **Events and Faults from VU Printout**

PRT_011The events and faults from VU printout shall be in accordance with the following format:

1	Date and time at which the document is printed
2	Type of printout
3	Card holder identification (for all cards inserted in VU + GEN)
4	Vehicle identification (vehicle from which printout is taken)
13.2	Events delimiter
13.4	Event records (All Events stored or on-going in the VU)
13.3	Faults delimiter
13.4	Fault records (All Faults stored or on-going in the VU)
22.1	Control place
22.2	Controller's signature
22.5	Driver's signature

3.5. **Technical data Printout**

PRT_012The technical data printout shall be in accordance with the following format:

1	Date and time at which the document is printed
2	Type of printout
3	Card holder identification (for all cards inserted in VU + GEN)
4	Vehicle identification (vehicle from which printout is taken)
14	VU identification
15	Sensor identification
15.1	Sensor Pairing data (all data available in chronological order)
16	GNSS identification
16.1	External GNSS facility coupling data (all data available in chronological order)
17	Calibration data delimiter
17.1	Calibration records (all records available in chronological order)
18	Time adjustment delimiter
18.1	Time adjustment records (all records available from time adjustment and from calibration data records)
19	Most recent event and Fault recorded in the VU

3.6. **Over speeding Printout**

PRT_013The over speeding printout shall be in accordance with the following format:

1	Date and time at which the document is printed
2	Type of printout
3	Card holder identification (for all cards inserted in VU + GEN)
4	Vehicle identification (vehicle from which printout is taken)
20	Over speeding control information
21.1	Over speeding data identifier
21.4/21.5	First over speeding after the last calibration
21.2	Over speeding data identifier
21.4/21.5	The 5 most serious over speeding events over the last 365 days
21.3	Over speeding data identifier
21.4/21.5	The most serious over speeding for each of the last 10 days of occurrence
22.1	Control place
22.2	Controller's signature
22.5	Driver's signature

3.7. **Historic of inserted cards**

PRT_014 The historic of inserted cards printout shall be in accordance with the following format:

1	Date and time at which the document is printed
2	Type of printout
3	Card holder identifications (of all cards inserted in the VU)
23	Most recent card inserted in the VU
23.1	Inserted cards (up to 88 records)
12.3	Faults delimiter