HOW TO CHECK DRIVERS USING A DIGITAL TACHOGRAPH ?

José Piscitelli
Customs & Excises HQ
Department of Security Affairs
Road Transport
P.Box. 1605 *(Place de la Gare, 26)*
L - 1016 LUXEMBOURG
Tel. : (+352) 290 191 241
Fax : (+352) 290 191 238
E-mail : jose.piscitelli@do.etat.lu

LUXEMBOURG: TRANSIT COUNTRY in the EU centre

… … … even after the enlargement and considering the AETR countries

Website : www.e
E-mail : secretari

Content of a complet AETR roadside check:

- **Recording equipment / Control device** (Visual or technical check: Approval, Installation plaque/calibration, seals, manipulations…)
- ***Status of the WS card (lost, stolen…)***
- **Identification of the driver** (against the used Driver card and/or the printouts)
- **Status of the DC (lost, stolen…)**
- **Driving and rest periods / Activities**

Data from the Vehicle unit (VU) (Daily activities, Events, Speed (Speed limiter), Technical data)

- By download
- By printout

Data from the Driver card (DC) (Daily activities… / Events)

- By download trough the VU
- By download from a card reader
- By printout through the VU

Recording Equipment / Control device

RECORDING EQUIPMENT IN THE VEHICULE

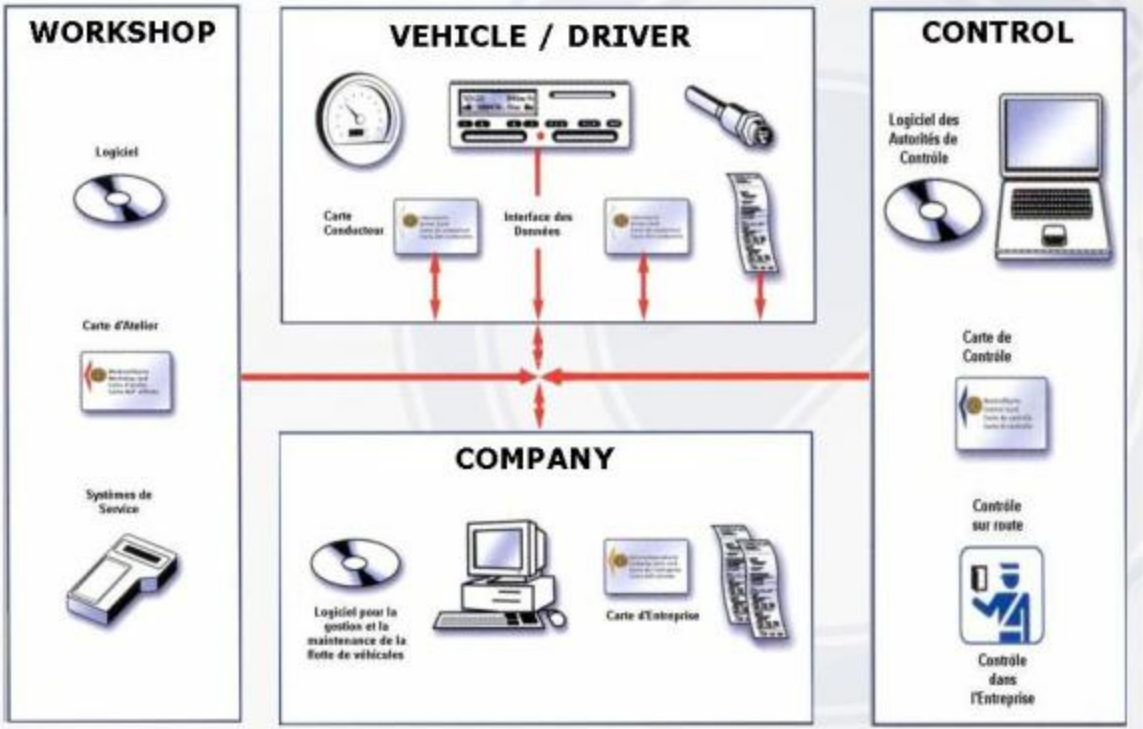
Interface for downloading and services

Driver card
Control card
Workshop card
Company card

Motion Sensor
Kitas II

Printout

CONCEPT OF THE DIGITAL TACHOGRAPH



INSTALLATION & CALLIBRATION

WORKSHOP

Logiciel

Carte d'Atelier

Systèmes de Service

1b Tacho

Not sealed

Secured

Sealed

Gearbox

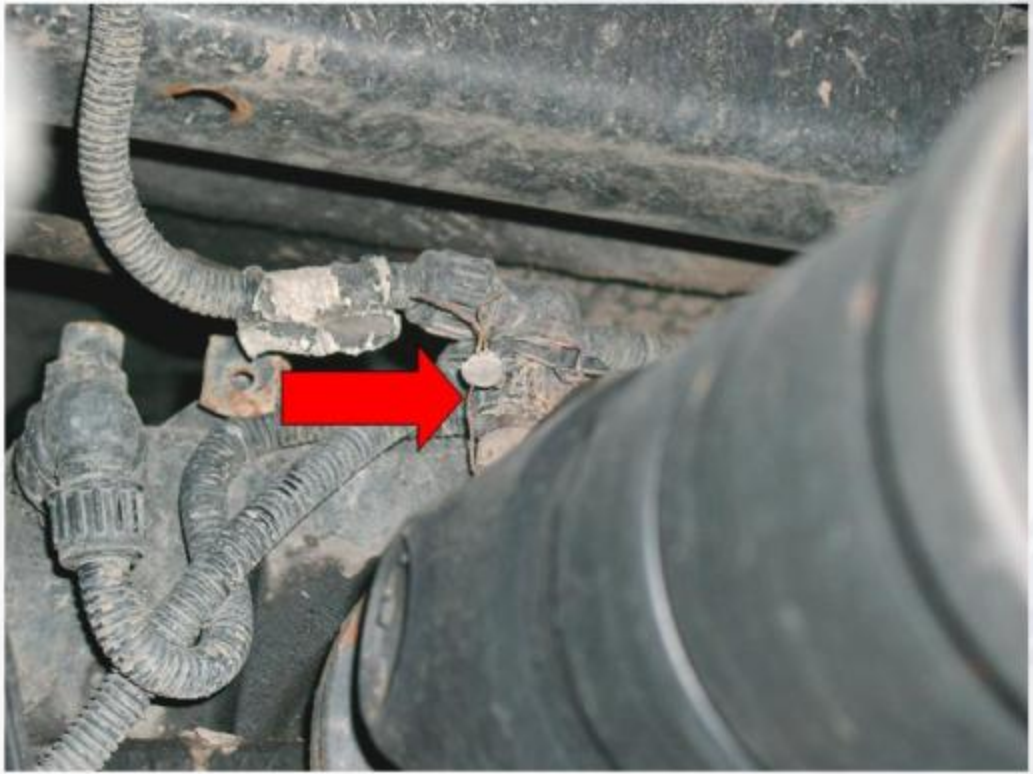
In case of suspicion (e.g. when sensor faults, internal faults, motion data error, security breach attempt, multiple power supply interruptions..., have been registered as faults or events by the VU) at least the Sensor seal might be checked - which actually is not easy to find...

Example of a
motion sensor
seal

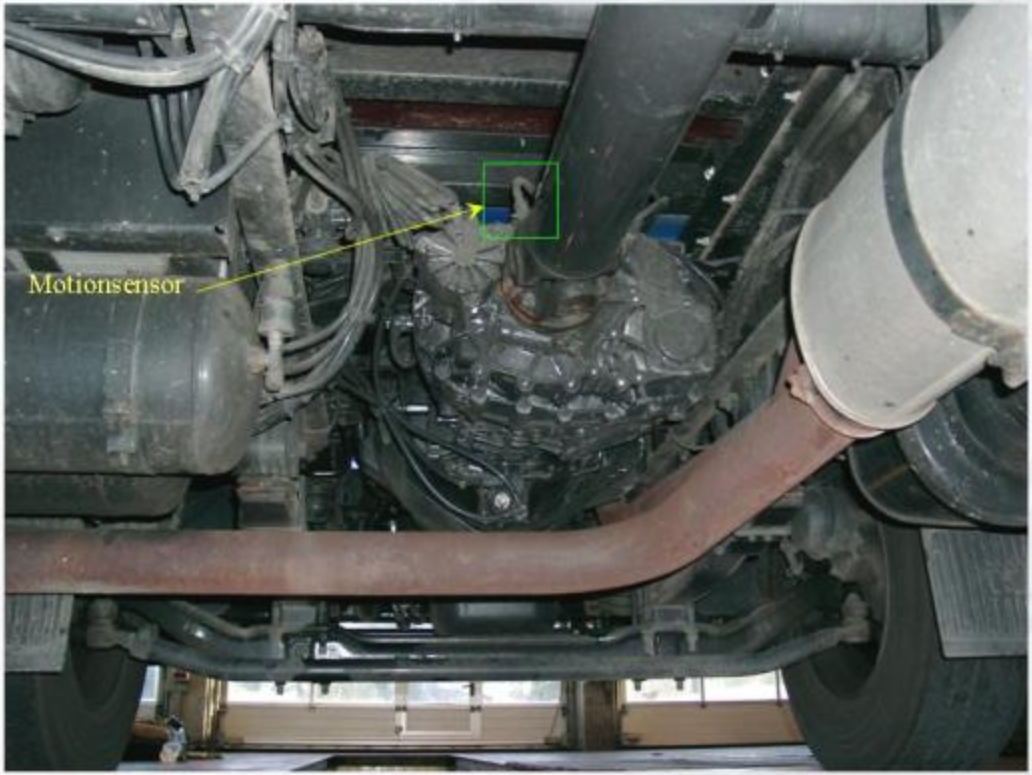
MAN L2000

MAN L2000

MAN L2000



MAN M2000

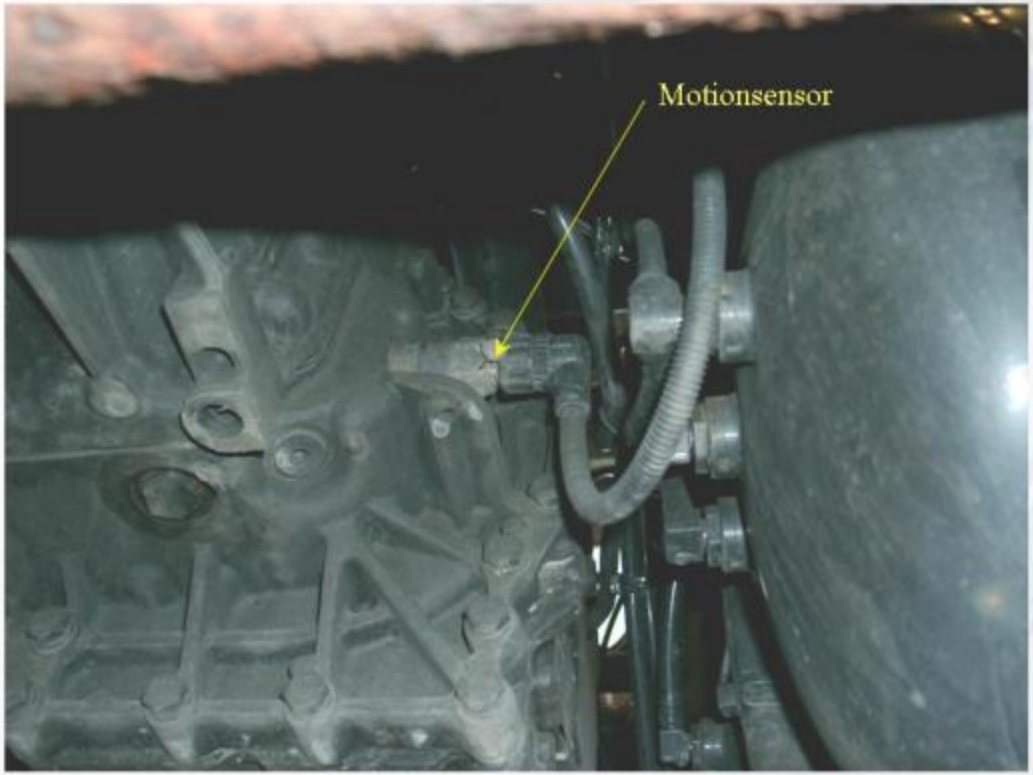


MAN M2000

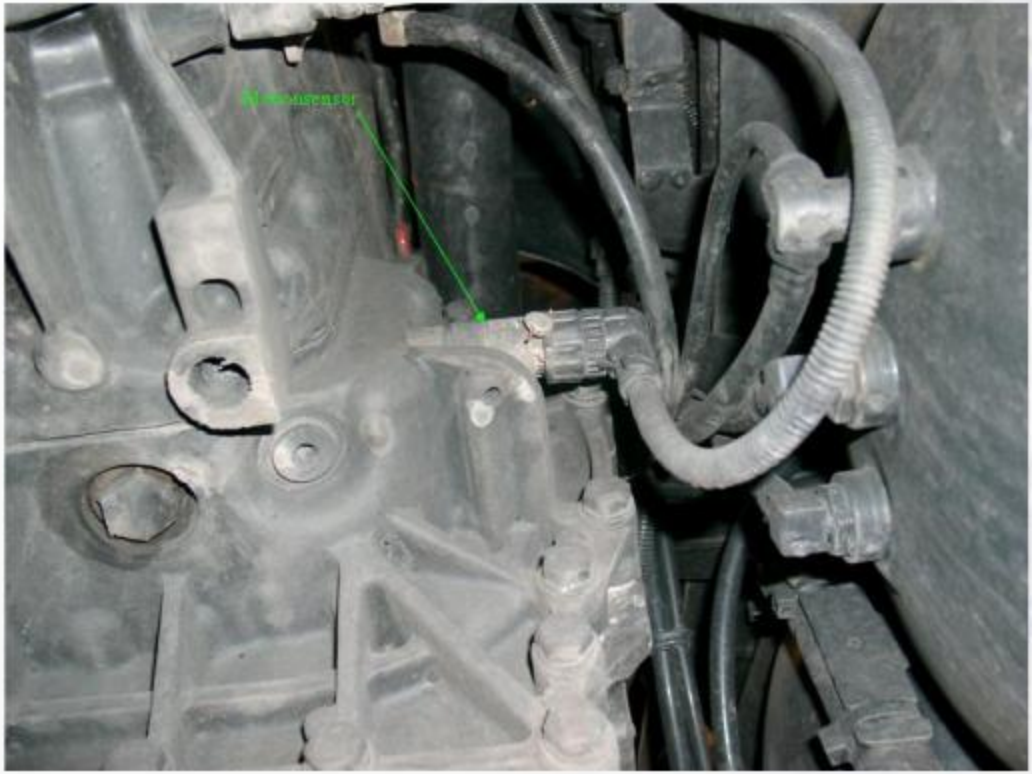
MAN M2000

MAN TGA (TG 410A)

MAN TGA (TG 410A)



MAN TGA (TG 410A)

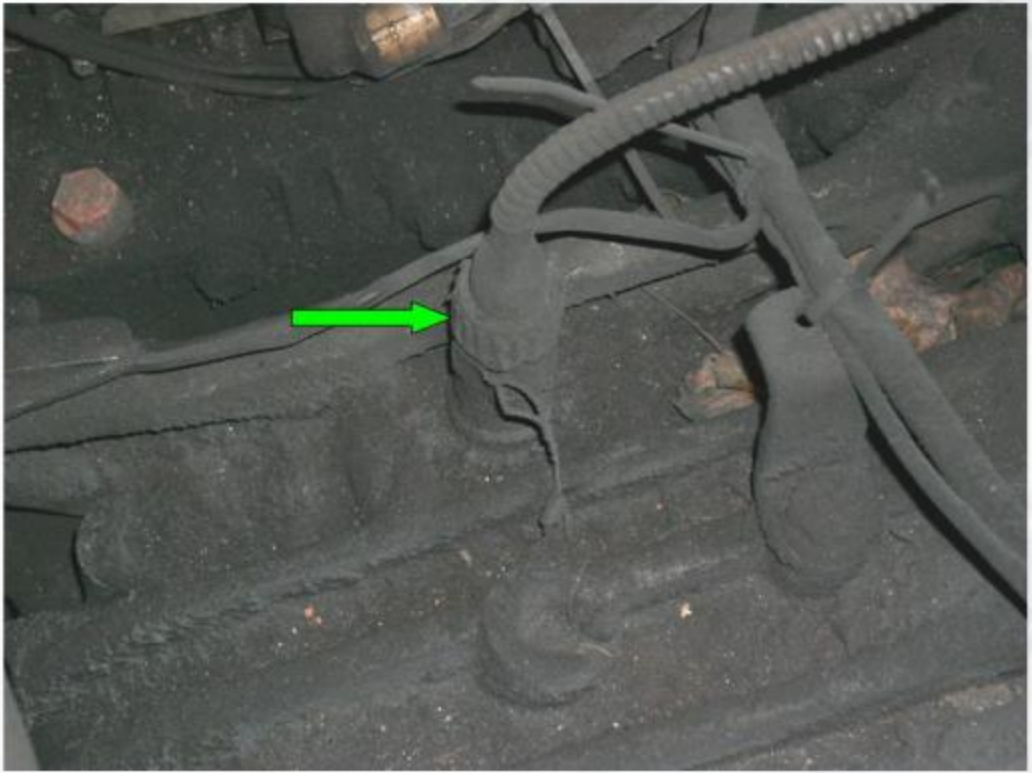


SETRA S319UL

SETRA S319UL

SETRA S319UL

SETRA S319UL



INSTALLATION & CALLIBRATION

WORKSHOP

Logiciel

Carte d'Atelier

Systèmes de Service

The Workshop card

- Very powerful – High risk for manipulations
- In case of suspicion: Checking the status of the card (lost / stolen) – (Need for an access to TACHOnet)

F1
F2
F3
F4
7
8
9
4
5
6
1
2
3
0
C

```
▼ 28.02.2006 14:31 (UTC)
T&T
o MustermannB
  ChristianB
@FIN/10000000000000 9 6
  30.04.2007
o MustermannB
  ChristianB
@FIN/10000000000000 9 7
  30.04.2007
A WDB1234567F123456
  L  /          JB007
B SiemensVDO Automotive
  AG
  N.-Hertz-Str.45 78052
  Villingen
  1381.2072000001
  e1-84
  00000005454
  2005
  ..28.02.2005
# 1477711227
  e1 175
  14.04.2005
T workshop20
  address20
T&T 0 0 0 0 0 0 2  4
  30.04.2007
↑ 16.11.2005 (3)
A WDB1234567F123456
  L  /          JB007
w  7 250 Imp/km
k  7 250 Imp/km
l  3 325 mm
●  315 80 R22.5
>  90km/h
       501 -      1 200
  16.11.2005 15:30
↓ 16.11.2005 15:30
T workshop20
```

VDO KIENZLE
94154 RUNGIS

AW 94

N° d'agrément AW94

Date d'installation 10.06.01

10275 Trs: imp/km

3250

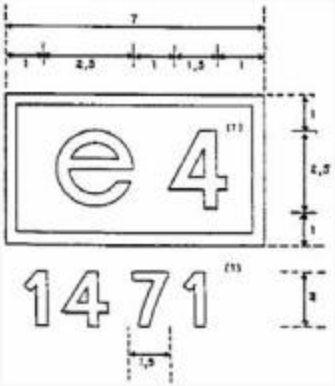
date de la mesure l et v 10 .01 .02

Pneumatiques 315 /70 R22,5

Monitoring of the Implementation of Digital Tachograph
MIDT

UNECE Symbols used in the approval marks of Contracting Parties to

(05/11/04)

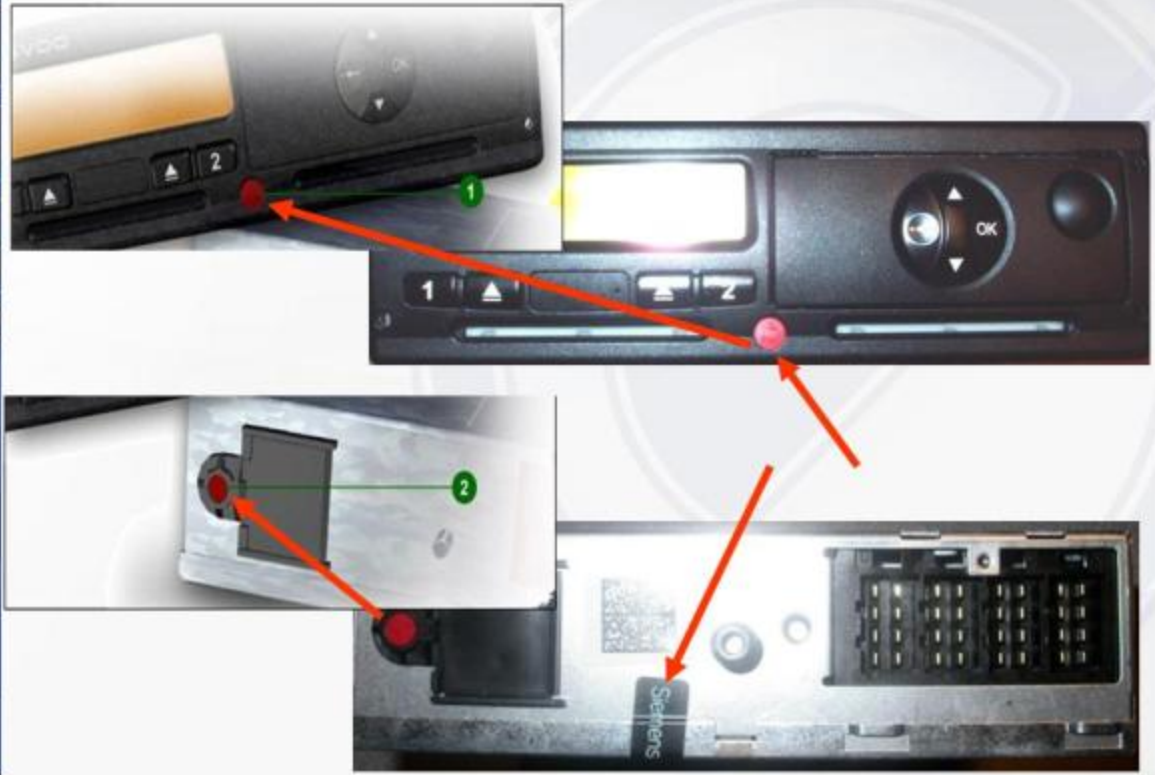


UNECE Symbol	Agreement concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be fitted and/or be used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions (1958 Agreement)	European Agreement concerning the Work of Crews of Vehicles engaged in International Road Transport (AETR)
E 1	Germany	Germany
E 2	France	France
E 3	Italy	Italy
E 4	Netherlands	Netherlands
E 5	Sweden	Sweden
E 6	Belgium	Belgium
E 7	Hungary	Hungary
E 8	Czech Republic	Czech Republic
E 9	Spain	Spain
E 10	Yugoslavia	Yugoslavia
E 11	United Kingdom	United Kingdom
E 12	Austria	Austria
E 13	Luxembourg	Luxembourg
E 14	Switzerland	Switzerland
E 15	---	---
E 16	Norway	Norway
E 17	Finland	Finland
E 18	Denmark	Denmark
E 19	Romania	Romania
E 20	Poland	Poland
E 21	Portugal	Portugal
E 22	Russian Federation	Russian Federation
E 23	Greece	Greece
E 24	Ireland 2/	Ireland
E 25	Croatia	Croatia
E 26	Slovenia	Slovenia
E 27	Slovakia	Slovakia
E 28	Belarus	Belarus
E 29	Estonia	Estonia
E 30		Republic of Moldova
E 31	Bosnia and Herzegovina	Bosnia and Herzegovina
E 32	Latvia	Latvia
E 33		Liechtenstein
E 34	Bulgaria	Bulgaria
E 35		Kazakhstan
E 36	Lithuania	Lithuania
E 37	Turkey	Turkey
E 38		Turkmenistan
E 39	Azerbaijan	Azerbaijan
E 40	The former Yugoslav Republic of Macedonia	The former Yugoslav Republic of Macedonia
E 41		Andorra
E 42	European Community 3/	
E 43	Japan	
E 44		Uzbekistan
E 45	Australia	
E 46	Ukraine	
E 47	Republic of South Africa	
E 48	New Zealand	
E-49	Cyprus 2/	Cyprus
E-50	Malta 2/	Malta
E-51	Republic of Korea 4/	
Total:	41 Parties (+Ireland, Cyprus and Malta - by virtue of EC accession)	48 Parties

Website : www.eu-digitaltachograph.org
E-mail : secretariat@eu-digitaltachograph.org

TYPE APPROVED VU's UNTIL NOW

SOME VISIBLE SECURITY ELEMENTS



SOME VISIBLE SECURITY ELEMENTS

USE OF THE DIGITAL TACHOGRAPH

Display, 16-digits

Interface for downloading Service-Interface

Printer

Button to release the printer drawer

Navigation button

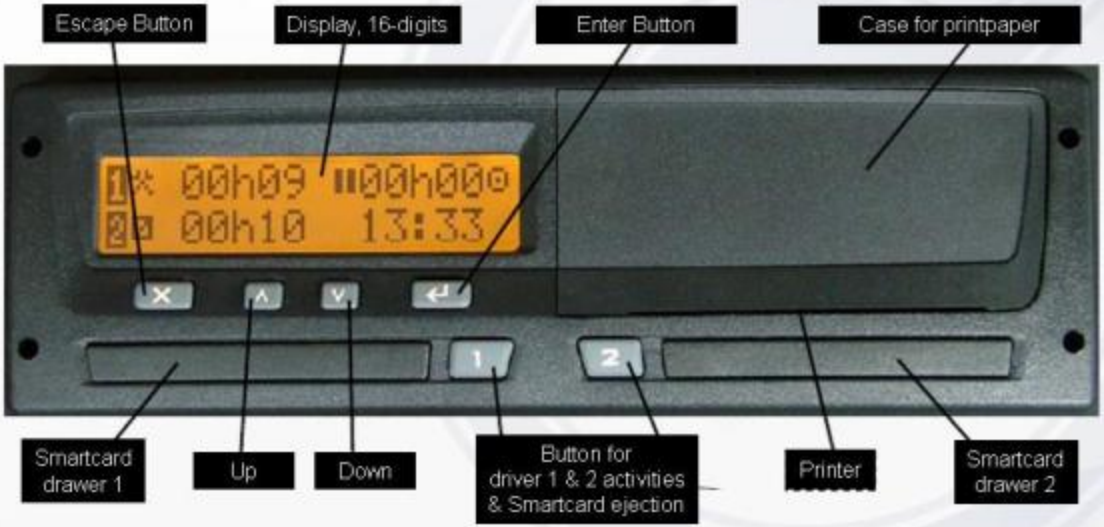
Buttons for Smartcard ejection

Buttons for driver 1 & 2 activities

Central sealing

Slot 1 & 2 for Smartcards

USE OF THE DIGITAL TACHOGRAPH



Driver Card Identification / Status

Monitoring of the Implementation of Digital Tachograph
MIDT

COMMUNITY MODEL TACHOGRAPH CARDS

FRONT *REVERSE*

DRIVER CARD

MS

1.
2.
3.
4a. 4b. MEMBER STATE
4c.
(4d.)
5a.
5b.
6.
7.
(8.)

A B

1. Surname 2. First name(s) 3. Birth date
4a. Date of start of validity of card
4b. Administrative expiry date of card
4c. Issuing authority
(4d.) No for national administrative purposes
5a. Driving license number 5b. Card number
6. Photograph
7. Signature (8.) Address

Please return to:
NAME OF AUTHORITY AND ADDRESS

CONTROL CARD

MS

1.
(2.)
(3.)
4a. (4b.) MEMBER STATE
4c.
(4d.)
5b.
(6.)
(7.)
8.

1. Control Body (2.) Surname (3.) First name(s)
4a. Date of start of validity of card
(4b.) Administrative expiry date of card
4c. Issuing authority
(4d.) No for national administrative purposes
5b. Card number
(6.) Photograph
(7.) Signature 8. Address

Please return to:
NAME OF AUTHORITY AND ADDRESS

WORKSHOP CARD

MS

1.
(2.)
(3.)
4a. 4b. MEMBER STATE
4c.
(4d.)
5b.
CARTA DELL'OFFICINA
WERKPLAATSKAART
(7.)
8.

1. Workshop Name (2.) Surname (3.) First name(s)
4a. Date of start of validity of card
4b. Administrative expiry date of card
4c. Issuing authority
(4d.) No for national administrative purposes
5b. Card number
(7.) Signature 8. Address

Please return to:
NAME OF AUTHORITY AND ADDRESS

COMPANY CARD

MS

1.
(2.)
(3.)
4a. 4b. MEMBER STATE
4c.
(4d.)
5b.
(7.)
8.

1. Company Name (2.) Surname (3.) First name(s)
4a. Date of start of validity of card
4b. Administrative expiry date of card
4c. Issuing authority
(4d.) No for national administrative purposes
5b. Card number
(7.) Signature 8. Address

Please return to:
NAME OF AUTHORITY AND ADDRESS

Website : www.eu-digitaltachograph.org
E-mail : secretariat@eu-digitaltachograph.org

CARD SECURITY FUTURES

The card as well as the chip are highly secured

Logotype Français
Charte gouvernementale

Encre optiquement variable
Réagit en or et bronze selon l'inclinaison

Patch holographique spécifique.
Laminât de protection holographique transparent au recto des cartes chronotachygraphes.

IDENTIFICATION OF THE DRIVER

Surname
First name
Birth date
Date start of valid.
Adm. expiry date.

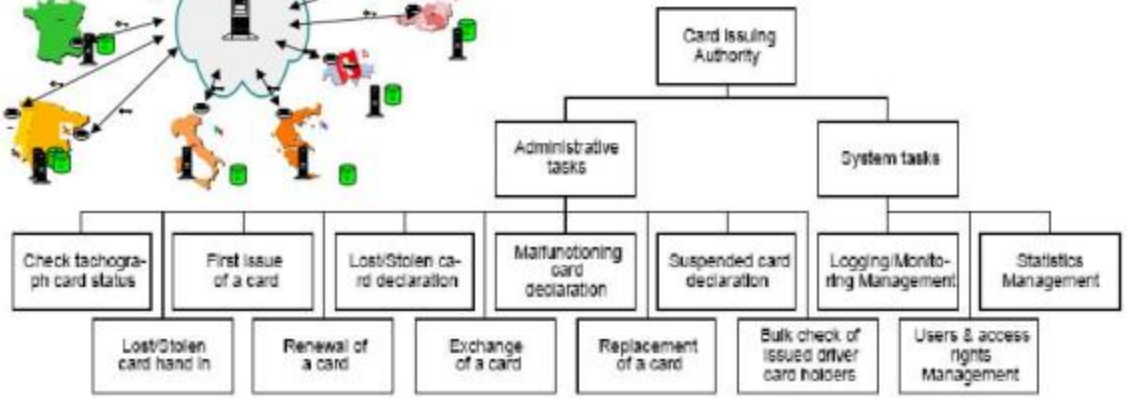
Issuing authority
Driving License N°

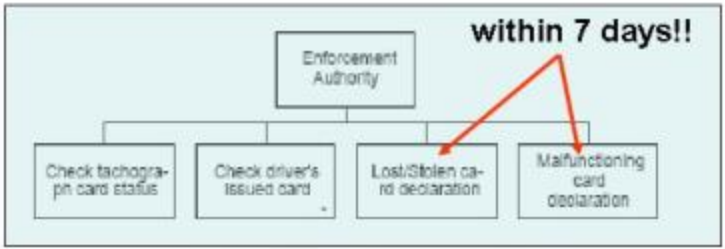
Card Number:

Important:
Replacement index
(lost / stolen!?)°

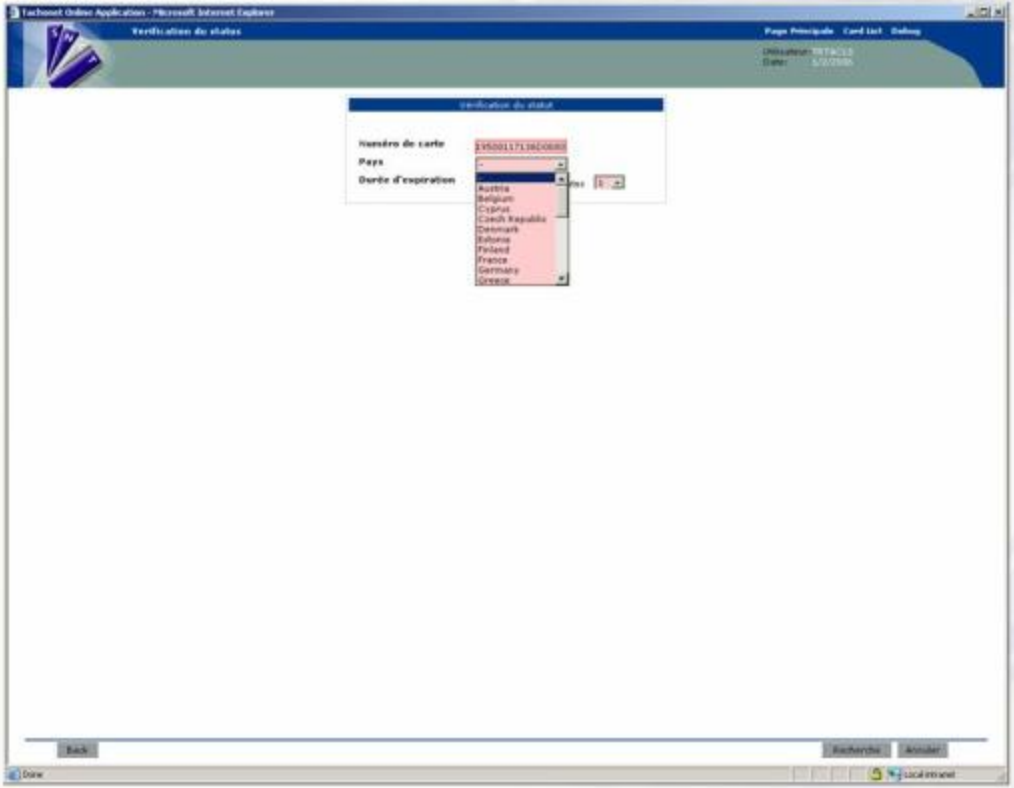
P	■	x	x	x	/	x	x	x	x	x	x	x	x	x	x	x	x		x		x
Card Pictogram combination		Issuing Member State code				First 14 characters of card number (possibly including a consecutive index)													Replacement index		Renewal index

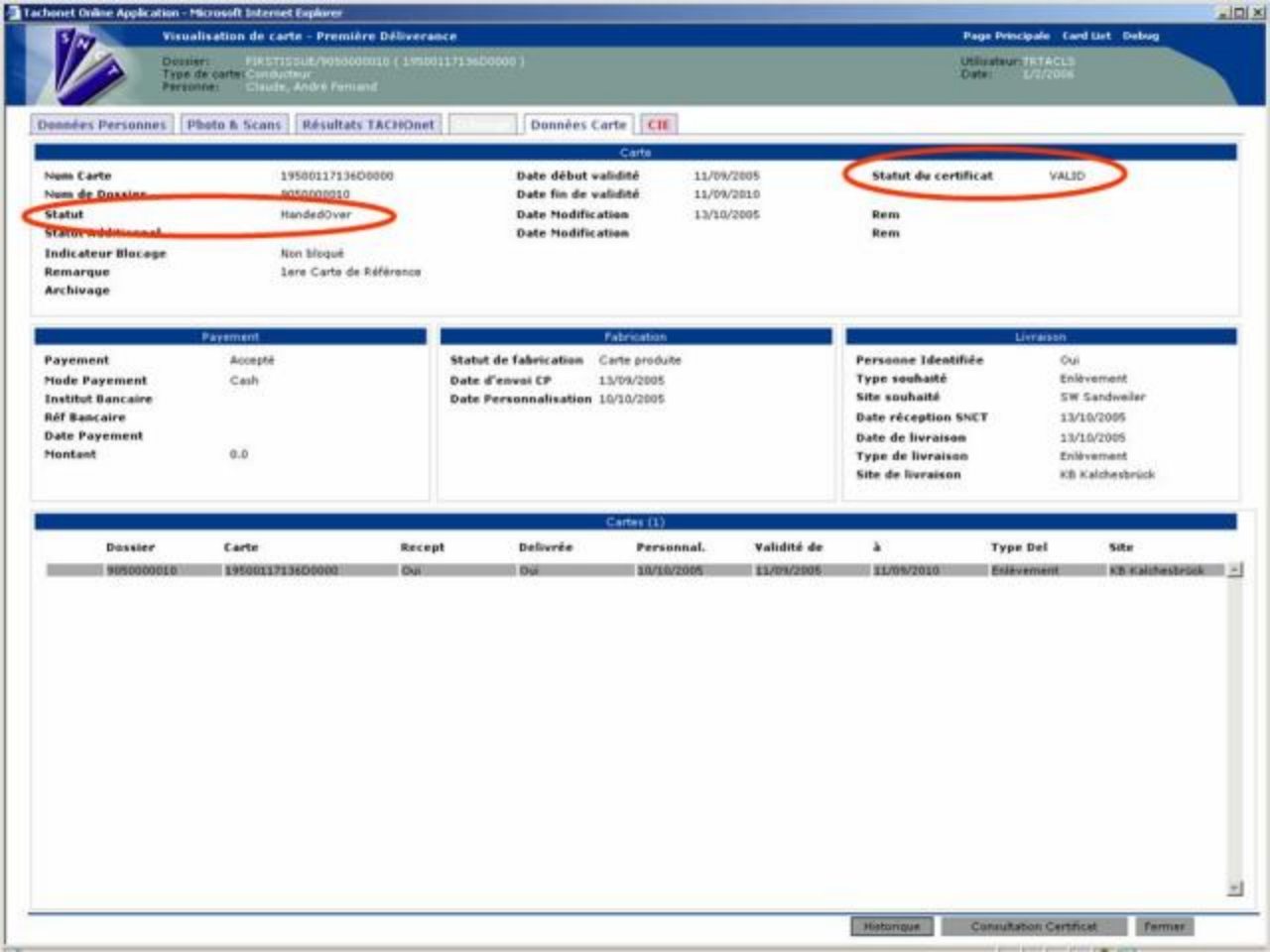
TACHOnet


Card Issuing Authority
Administrative tasks
System tasks
Check tachograph card status
First issue of a card
Lost/Stolen card declaration
Malfunctioning card declaration
Suspended card declaration
Logging/Monitoring Management
Statistics Management
Lost/Stolen card hand in
Renewal of a card
Exchange of a card
Replacement of a card
Bulk check of issued driver card holders
Users & access rights Management

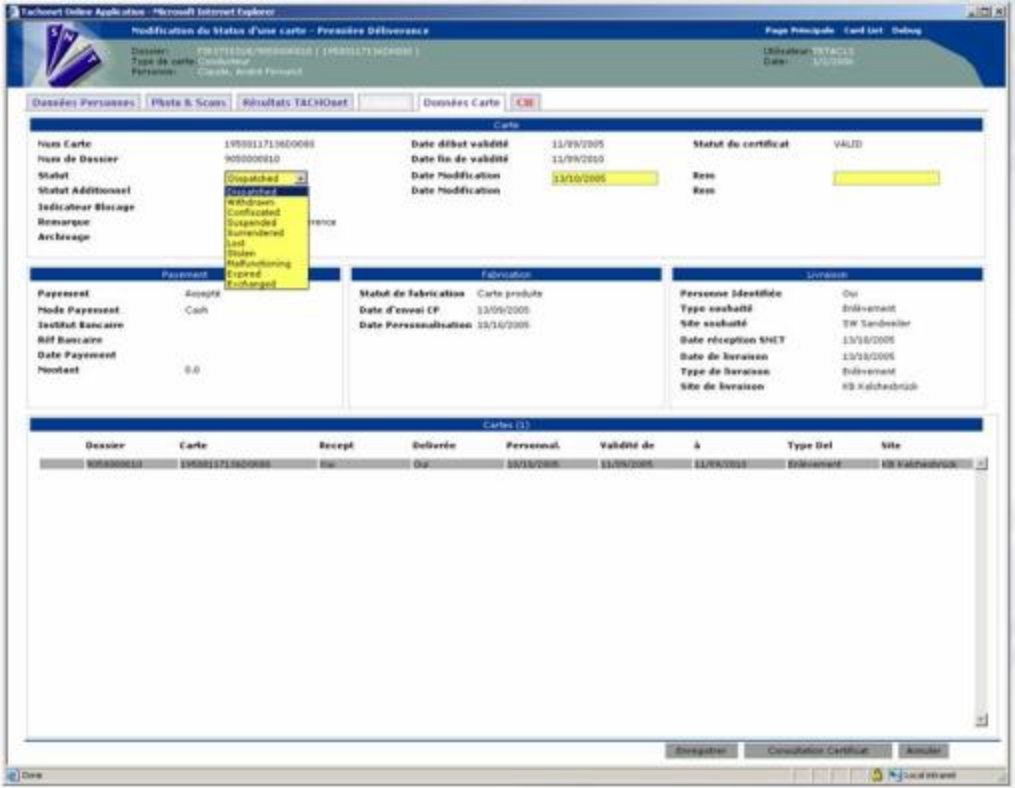

within 7 days!!
Enforcement Authority
Check tachograph card status
Check driver's issued card
Lost/Stolen card declaration
Malfunctioning card declaration

CHECKING CARD STATUS BY NUMBER

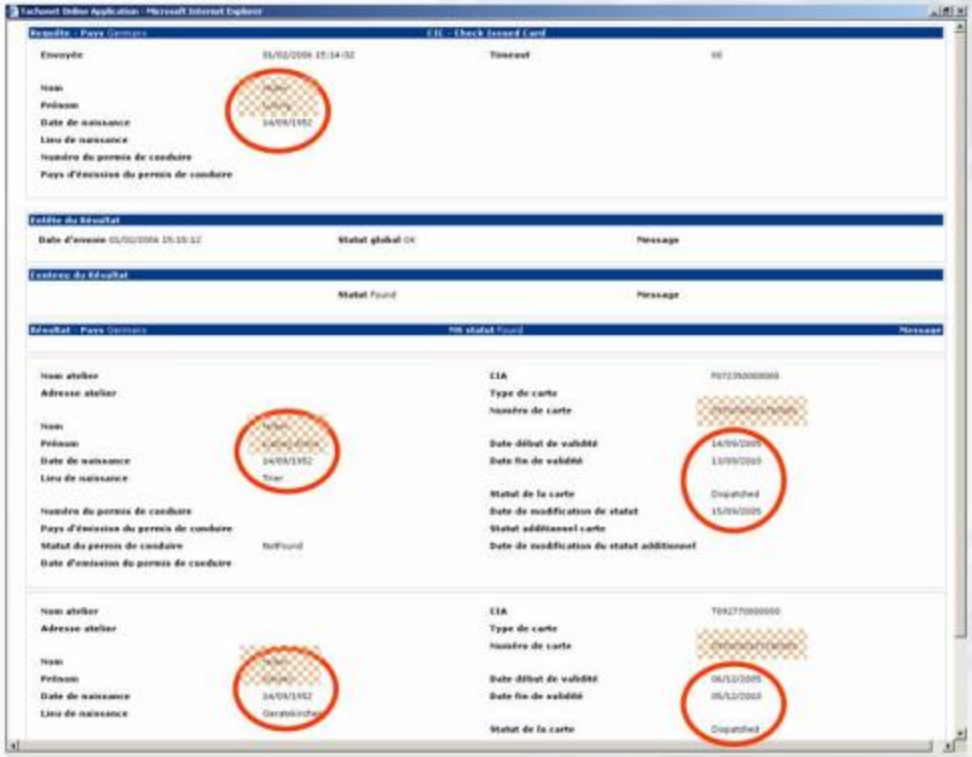



Tachonet Online Application - Microsoft Internet Explorer
Visualisation de carte - Première Délivrance
Page Principale
Card List
Debug
Dossier: FIRSTISSUE/9050000010 (19500117136D0000)
Type de carte: Conducteur
Personne: Claude, André Fernand
Utilisateur: TRTACLS
Date: 1/1/2006
Données Personnes
Photo & Scans
Résultats TACHOnet
Données Carte
CIE
Carte
Nom Carte 19500117136D0000
Nom de Dossier 9050000010
Statut HandedOver
Statut additionnel
Indicateur Blocage Non bloqué
Remarque 1ere Carte de Référence
Archivage
Date début validité 11/09/2005
Date fin de validité 11/09/2010
Date Modification 13/10/2005
Date Modification
Statut du certificat VALID
Rem
Rem
Payement
Payement Accepté
Mode Payement Cash
Institut Bancaire
Réf Bancaire
Date Payement
Montant 0.0
Fabrication
Statut de fabrication Carte produite
Date d'envoi CP 13/09/2005
Date Personnalisation 10/10/2005
Livraison
Personne Identifiée Oui
Type souhaité Enlèvement
Site souhaité SW Sandweiler
Date réception SNCT 13/10/2005
Date de livraison 13/10/2005
Type de livraison Enlèvement
Site de livraison KB Kalchesbrück
Cartes (1)
Dossier Carte Recept Delivrée Personnal. Validité de à Type Del Site
9050000010 19500117136D0000 Oui Oui 10/10/2005 11/09/2005 11/09/2010 Enlèvement KB Kalchesbrück
Historique
Consultation Certificat
Fermer

MODIFICATION OF THE STATUS



CHECKING DRIVER'S ISSUED CARD



Driving & Rest periods / Activities

DURING ROADSIDE CHECKS

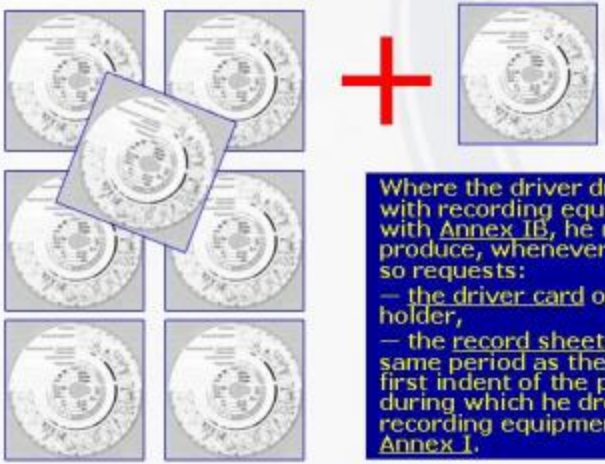
DRIVERS HAVE TO PRODUCE:

Where the driver drives a vehicle fitted with recording equipment in conformity with Annex I, he must be able to produce, whenever an inspecting officer so requests:

— the record sheets for the current week and, in any event, the sheet for the last day on which he drove during the previous week,

— the driver card if he holds one, and

— print-outs from the recording equipment defined in Annex IB relating to the periods of time indicated in paragraph 3, second indent, (a), (b), (c) and (d) if he drove a vehicle fitted with such recording equipment during the period referred to in the first indent of this paragraph.



Where the driver drives a vehicle fitted with recording equipment in conformity with Annex IB, he must be able to produce, whenever an inspecting officer so requests:

— the driver card of which he is the holder,

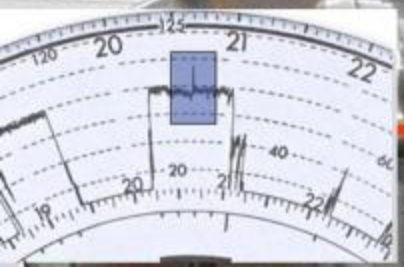
— the record sheets corresponding to the same period as the one referred to in the first indent of the previous subparagraph during which he drove a vehicle fitted with recording equipment in conformity with Annex I.

ACTIVITIES

KIENZLE
09:25 11:55 02h30
11:55 12:34 00h39
205 177 km;
1
S /LCR 243
205 177 km
12:34 15:11 02h37
15:11 16:22 01h11
KIENZLE

ODOMETER

SPEED



Speed limiter

Council Directive No 92/6 EEC of 10 February 1992

DOWNLOADING OF DATA

The ways to get access to the data

- To download VU's and driver card's data to any laptop.
  A control card is needed.
- To print the data from both the VU and the driver card.
  No need to have a control card but without a control card, there are restrictions to the access of the VU's data.
- To display the data on the VU's screen (quite difficult)

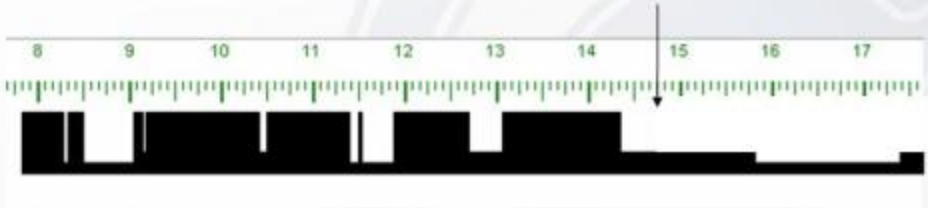
	No Card	Driver Card	Control Card	Company Card
Print Display	All data with personal identifiers blinded	All own data + Idem No Card	All data	All data except for periods locked by other companies + Idem No Card
Download	Forbidden	Forbidden	All data	All data except for periods locked by other companies

Importance of Downloading both VU & Cards

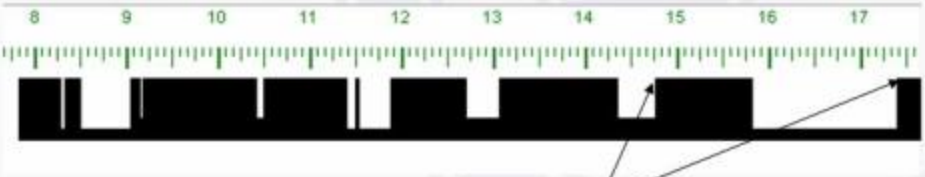
Downloading the data from the VU and the DC is the most efficient way for enforcement officers

Driver card trace:

Card removal 14:45



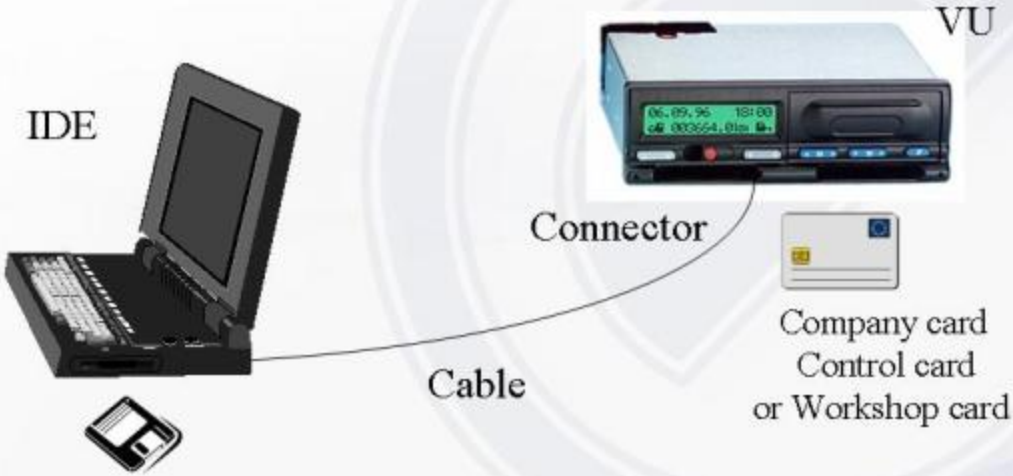
VU Trace for same period:



VU Trace shows driving of vehicle without a card from 14:45 to 15:50 and 17:25 onwards

Who drove?

VU Data Downloading Physical Elements



VU Data Downloading
Physical Elements (Alternate Solutions)

Connection of IDE to a CAN connector,

Remote download from company premises (GSM based for example)

- ⇒ Company card in IDE
- ⇒ Allow VU to be "Multi-User" :one user using standard MMI and one user (company only) connected through back connector
- ⇒ Security principles can remain the same

VU & DC Data Downloading

Downloadkey

USB interface

LEDs für Speicherkapazität

Status

Download Interface

6-pin Stecker

Default configuration | Vehicle configuration | Calendar | Overview | Log

Language configuration

Language: English

File name format: Rest of Europe

Data blocks

- ○ Complete Mass Memory
- ◉ Selection
  - ☑ Overview data
  - ☐ Detailed Speed
  - ☑ Events and Faults
  - ☑ Technical Data
  - ☑ Activities
  - ☐ Card Download
  - ☐ Siemens VDO Download

Period

- ○ Since last download
- ○ From _____ to _____
- ◉ Last 22 days

Calendar

Apply

Default configuration | Vehicle configuration | Calendar | Overview | Log

Vehicle

VIN: WDB1234567F123456 VRN: JB007

Annual overview 2005 / 2006

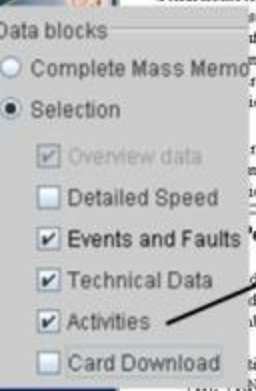
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

April
May
June
July
Aug.
Sep.
Oct.
Nov.
Dec.
Jan.
Feb.
March

M_20051130_1518_ JB007_WDB1234567F123456.DDD: Overview, Activities, Techn

Monitoring of the Implementation of Digital Tachograph
MIDT

VU Data Downloading correspondence
VU Data storage - Download Messages



Equipment Identification
VU:
Manufacturer Name, Address,
Part number,
Serial number,
...sion,
...ufacture,
...mber,
...rement range,
...ion date

...f,
...mber.
...ion date

...eriodic inspection
...dentification:
...ddress,
...mber and expiry date,
...tification:
..., VRN & Registration country,
Vehicle characteristics:
w, l, speed limit.
Time adjustment. Old and new values

Repair

Company data locks
Date & time, In Out
Company Card number, Name, Address

Drivers identification
Per insertion/withdrawal cycle:
Driver name, first name,
Card number, nation, expiry date,
Insertion date & time, slot, odometer,
Previously used vehicle:
VRN & Nation
Withdrawal date & time,
Withdrawal date & time, odometer.

Activity data
Per activity:
Card inserted (Yes/No),
Slot (Driver/Co-Driver),
Crew (Yes/No),
Activity code Dr/Wk/Av/Re,
Date & time start or duration

Location
Driver card number, date & time,
Country, region,
Odometer

Midnight Odometer
Date, Odometer

Speed (24 hours)
per second

Control activity
Date & time, Control card number, Type

Events
Per event:
Dr. and Co-Dr. Card numbers at start and end,
Date & time start and end,
Nr of similar events this day.

Time adjustments
Per event:
Workshop card number,
Date & time old and new settings,

Overspeed
Date of last speed control,
Date of first event and Nr of events since,
Per longest event on a day:
Card numbers,
Date & time start and end,
Maximum and average speeds,
Nr of similar events this day.

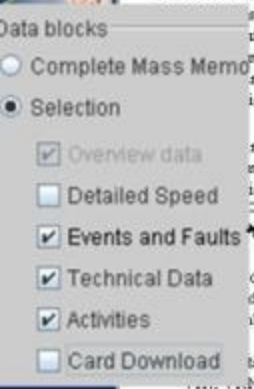
Faults
Per fault:
Dr. and Co-Dr. card numbers at start and end,
Date & time start, end

Download control
Last download date and time,
Company identification:
Name, Card number, Download software version

Security elements

Monitoring of the Implementation of Digital Tachograph
MIDT

VU Data Downloading correspondence
VU Data storage - Download Messages



Equipment Identification
VU:
Manufacturer Name, Address,
Part number,
Serial number,
...sion,
...ufacture,
...mber,
...rement range,
...ion date
...f,
...mber.
...ion date

...eriodic inspection
...dentification:
...ddress,
...mber and expiry date,
...tification:
..., VRN & Registration country,
Vehicle characteristics:
w, l, speed limit.
Time adjustment. Old and new values

Repair

Company data locks
Date & time, In Out
Company Card number, Name, Address

Drivers identification
Per insertion/withdrawal cycle:
Driver name, first name,
Card number, nation, expiry date,
Insertion date & time, slot, odometer,
Previously used vehicle:
VRN & Nation
Withdrawal date & time,
Withdrawal date & time, odometer.

Activity data
Per activity:
Card inserted (Yes/No),
Slot (Driver/Co-Driver),
Crew (Yes/No),
Activity code Dr/Wk/Av/Re,
Date & time start or duration.

Location
Driver card number, date & time,
Country, region,
Odometer

Midnight Odometer
Date, Odometer

Speed (24 hours)
per second

Control activity
Date & time, Control card number, Type

Events
Per event:
Dr. and Co-Dr. Card numbers at start and end,
Date & time start and end,
Nr of similar events this day.

Time adjustments
Per event:
Workshop card number,
Date & time old and new settings,

Overspeed
Date of last speed control,
Date of first event and Nr of events since,
Per longest event on a day:
Card numbers,
Date & time start and end,
Maximum and average speeds,
Nr of similar events this day.

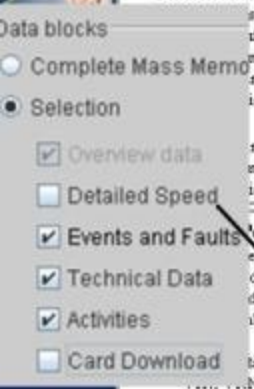
Faults
Per fault:
Dr. and Co-Dr. card numbers at start and end,
Date & time start, end

Download control
Last download date and time,
Company identification:
Name, Card number, Download software version

Security elements

Monitoring of the Implementation of Digital Tachograph
MIDT

VU Data Downloading correspondence
VU Data storage - Download Messages



Equipment Identification
VU:
Manufacturer Name, Address,
Part number,
Serial number,
...sion,
...ufacture,
...mber,
...rement range,
...ion date

...f,
...mber.
...ion date

...eriodic inspection
...e,
...dentification:
...ddress,
...mber and expiry date,
...tification:
..., VRN & Registration country,
Vehicle characteristics:
w, l, speed limit.
Time adjustment. Old and new values

Repair

Company data locks
Date & time, In Out
Company Card number, Name, Address

Drivers identification
Per insertion/withdrawal cycle:
Driver name, first name,
Card number, nation, expiry date,
Insertion date & time, slot, odometer,
Previously used vehicle:
VRN & Nation
Withdrawal date & time,
Withdrawal date & time, odometer.

Activity data
Per activity:
Card inserted (Yes/No),
Slot (Driver/Co-Driver),
Crew (Yes/No),
Activity code Dr/Wk/Av/Re,
Date & time start or duration.

Location
Driver card number, date & time,
Country, region,
Odometer

Midnight Odometer
Date, Odometer

Speed (24 hours)
per second

Control activity
Date & time, Control card number, Type

Events
Per event:
Dr. and Co-Dr. Card numbers at start and end,
Date & time start and end,
Nr of similar events this day.

Time adjustments
Per event:
Workshop card number,
Date & time old and new settings,

Overspeed
Date of last speed control,
Date of first event and Nr of events since,
Per longest event on a day:
Card numbers,
Date & time start and end,
Maximum and average speeds,
Nr of similar events this day.

Faults
Per fault:
Dr. and Co-Dr. card numbers at start and end,
Date & time start, end

Download control
Last download date and time,
Company identification:
Name, Card number, Download software version

Security elements

Monitoring of the Implementation of Digital Tachograph
MIDT

VU Data Downloading correspondence
VU Data storage - Download Messages

Equipment Identification
VU:
Manufacturer Name, Address,
Part number,
Serial number,
Software version,
Date of manufacture,
Approval number,
Speed measurement range,
First installation date
Sensor:
Serial number,
Approval number,
First installation date

Installation/Periodic inspection
Date and time,
Test station identification:
Name, Address,
Card number and expiry date,
k,
Vehicle identification:
VIN, VRN & Registration country,
Vehicle characteristics:
w, l, speed limit,
Time adjustment. Old and new values

Repair

Company data locks
Date & time, In Out
Company Card number, Name, Address

Drivers identification
Per insertion/withdrawal cycle:
Driver name, first name,
Card number, nation, expiry date,
Insertion date & time, slot, odometer,
Previously used vehicle:

Data blocks
Complete Mass Memo
Selection
Overview data
Detailed Speed
Events and Faults
Technical Data
Activities
Card Download

Midnight Odometer
Date, Odometer

Speed (24 hours)
per second

Control activity
Date & time, Control card number, Type

Events
Per event:
Dr. and Co-Dr. Card numbers at start and end,
Date & time start and end,
Nr of similar events this day.

Time adjustments
Per event:
Workshop card number,
Date & time old and new settings,

Overspeed
Date of last speed control,
Date of first event and Nr of events since,
Per longest event on a day:
Card numbers,
Date & time start and end,
Maximum and average speeds,
Nr of similar events this day.

Faults
Per fault:
Dr. and Co-Dr. card numbers at start and end,
Date & time start, end

Download control
Last download date and time,
Company identification:
Name, Card number, Download software version

Security elements

E-mail : secretariat@eu-digitaltachograph.org

EQUIPMENT & SOFTWARE

Die Datenübernahme erfolgt u.a. vom **Schaublattleser**,

vom handelsüblichen **Scanner**,

von auf CD archivierte Daten,

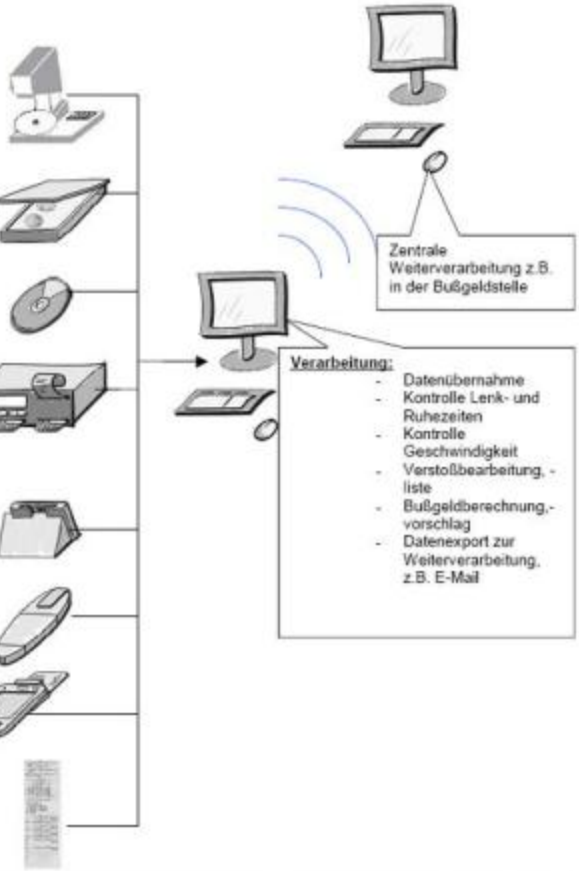
für Stichproben durch Auslesen des, per Funk oder Downloadkabel verbundenen, digitalen **Kontrollgerätes**,

mittels **Kartenlesegerät**,

durch Datenübernahme mittels **Downloadkey**,

oder vom PDA = Personal Digital Assistant als einfache kleine Lösung für den operativen Einsatz in der Fahrzeugkontrolle

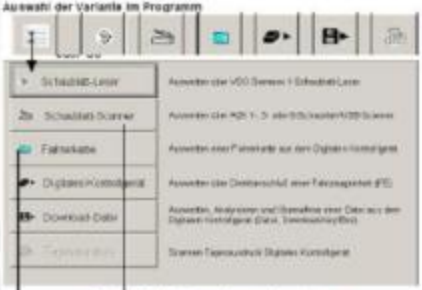
oder direkt vom Tagesausdruck des digitalen **Kontrollgerätes**



ZA-PSK/PDA Douanes-Contrôles sur Route

EQUIPMENT & SOFTWARE

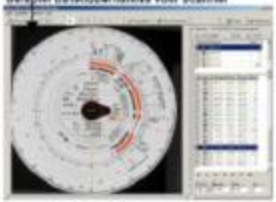
Auswahl der Variante im Programm



Egal welche Form der Datenübernahme Sie benötigen - alle Varianten werden Ihnen in einem Programm angeboten. Sie wählen Ihre Variante aus.

Von der Variante abhängige Informationen, wie z.B. Geschwindigkeiten bei der Datenübernahme vom Kontrollgerät oder Fahrerdetails bei der Fahrerkarte, stehen selbstverständlich zusätzlich zur Verfügung.

Beispiel Datenübernahme vom Scanner



ZAMIR erkennt eigenständig den Scheibentyp und die Position auf dem Scanner.

Bis maximal 6 Scheiben können gleichzeitig von einem handelsüblichen Gerät übernommen werden.

Sie haben alle Daten auf einem Blick. Fehler auf den Schaublättern können sofort manuell korrigiert werden.

Beispiel Datenübernahme von der Fahrerkarte (Kartenleser)

Das Programm ermittelt automatisch die Hardwareschnittstelle bzw. Portnummer des Geräteanschlusses.

Alle auf der Karte gespeicherten Daten stehen zur Auswertung zur Verfügung.

Über [redacted] kann die Kartenzulassung via Internet geprüft werden

Die Informationen zu Lenk- und Ruhezeiten werden unabhängig von der Import Variante in gleicher Weise für die weitere Bearbeitung aufbereitet.

Website : www.eu-digitaltachograph.org
E-mail : secretariat@eu-digitaltachograph.org

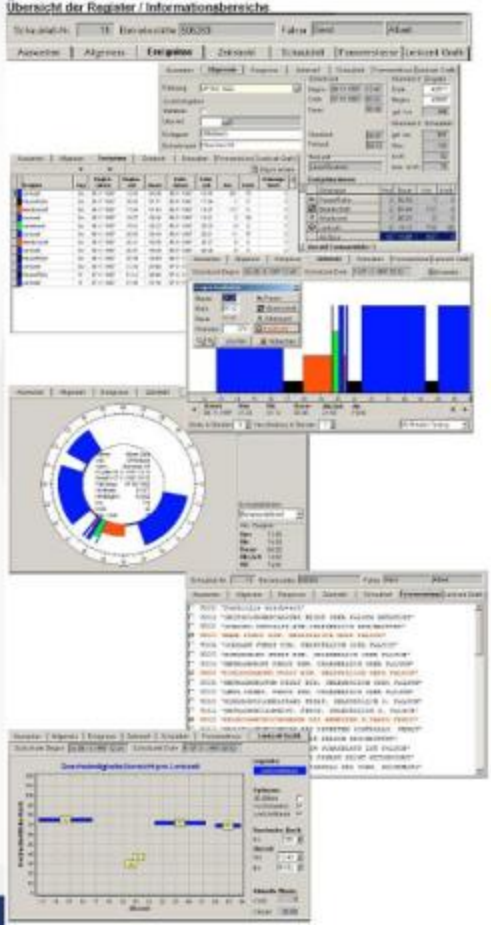
Monitoring of the Implementation of Digital Tachograph
MIDT

EQUIPMENT & SOFTWARE

Website : www.eu-digitaltachograph.org
E-mail : secretariat@eu-digitaltachograph.org

51 Überblick über die gespeicherten Informationen

Übersicht der Register / Informationsbereiche



Für das gewählten Tag / Schaublatt haben Sie alle notwendigen Informationen auf einen Blick inhaltlich und strukturell in unterschiedliche Register unterteilt.

Unabhängig vom Medium der Datenbereitstellung werden die Daten in gleicher Weise verwaltet und gespeichert.

Für die Informationsdarstellung haben Sie verschiedene Möglichkeiten in Registern strukturiert zur Auswahl.

In den verschiedenen Registern stehen Ihnen komfortable Bearbeitungsfunktionen zur Verfügung.

Die Ereignisanzeige erfolgt in Form

- einer Tabelle
- als Zeitstrahlgrafik
- als Schaublattgrafik
- als Geschwindigkeitsprofil.

Zusätzlich haben Sie die Möglichkeiten, ergänzend zu den Arbeitszeitverstößen, auch formelle Verstöße zum Kontrollvorgang bzw. zum Schaublatt auszuwählen.

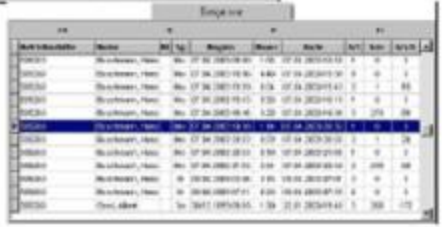
Die möglichen Formverstöße verwalten Sie eigenständig in den Stammdaten. "Standardverstöße" stehen Ihnen nach der Installation des Programms sofort zur Verfügung.

Zur Einschätzung des Fahrverhaltens bietet Ihnen ZAMIK eine Lenkzeitgrafik mit den durchschnittlichen Fahrgeschwindigkeiten

Prüfung Sozialvorschriften

Monitoring of Digital Ta
MIDT

EQUIPMENT & SOFTWARE



Mit dieser Funktion erfolgt die Überprüfung der gespeicherten Daten mit den Sozialvorschriften für den Straßenverkehr und die Feststellung der Abweichungen von gesetzlichen Normen als Verstoß.

Individuelle Toleranzen werden entsprechend Ihrer Vorgaben berücksichtigt.

Bei notwendiger Verfolgung dieser Verstöße werden diese in ein Aktenzeichen überführt und für die Bußgeldberechnung in ZAA AZK bzw. für den Export an ein weiterverarbeitendes Programm zur Verfügung gestellt.

In drei einfachen Schritten kommen Sie zu einer Verstoß Auswertung:

1. Sie legen Prüfvariante, Betriebsstätte und ggf. Fahrer und Zeitraum fest.
2. Starten Sie die Prüfung
3. Drucken Sie die Verstoßliste
4. optional: Überführung in ein Aktenzeichen

Bei Bedarf können die Ereignisse bzw. die Verstöße sofort nach der Prüfung exportiert werden, als Formate stehen u.a. CSV, XLS, DBF,TXT zur Verfügung

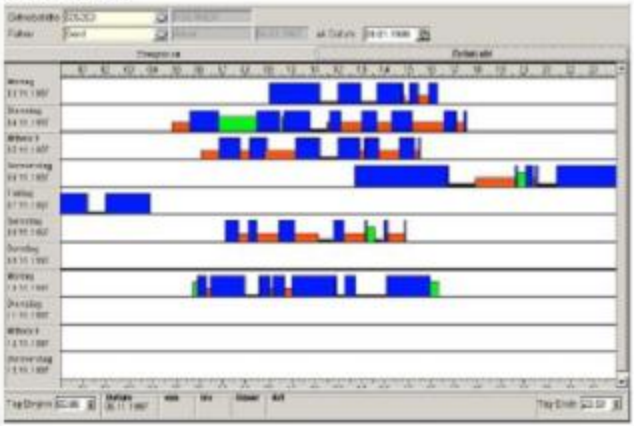
Website : www.eu-digital
E-mail : secretariat@eu-c

Monitoring of the Implementation of Digital Tachograph
MIDT

EQUIPMENT & SOFTWARE

Übersicht Ereignisse

Zeitstrahlübersicht



Jederzeit und sofort eine komplexe Übersicht zu den relevanten Daten

Monitoring of the Implementation of Digital Tachograph
MIDT

110 Routenkontrolle

EQUIPMENT & SOFTWARE

Dieses Programm bietet die detaillierte Überprüfung von Fahrtabläufen im Vergleich zwischen den gespeicherten Daten und einer mittels Routenplaner erstellten Vergleichsroute.

Auch für die Überprüfung der Fahrt bei Verdachtsmomenten, im Hinblick auf mögliche Manipulationen am EG-Kontrollgerät bzw. an den Schaublättern, ist der Einsatz der Routenkontrolle sinnvoll.

Anhand der gespeicherten Informationen werden die Abfahrts-, Halte- und Ankunftspunkte unter Nutzung von MAP Point hinterlegt.

Nach Ermittlung der Routendaten erfolgt die Gegenüberstellung der Fahrzeiten und Kilometer

Die Wegstrecke des Schaublattes wird durch das MAP-Programm im Detail ausgewertet und angezeigt. Die Routenstrecke kann transparent ausgedruckt werden.

Wichtig
Im Lieferumfang von ZAMIK ist das Interface zu MS - MAPPOINT enthalten. Die Lizenz für MS - MP ist nicht Bestandteil des Lieferumfangs. Beachten Sie auch die erweiterten Systemvoraussetzungen durch MS - MP bedingt.
(17" Monitor, CD-LW und erhöhter Speicherbedarf auf der Festplatte)

Website : www.eu-digitaltachograph.org
E-mail : secretariat@eu-digitaltachograph.org

Monitoring of the Implementation of Digital Tachograph
MIDT

EQUIPMENT & SOFTWARE

Website : www.eu-digitaltachograph.org
E-mail : secretariat@eu-digitaltachograph.org

71 Beispiel Verstoßliste - Word - Textbausteine ohne Anschreiben (Auszug)

72 Beispiel Verstoßliste - Word - Textbausteine ohne Anschreiben (Auszug)

I

1. Sie haben am 16.02.1994 in der Zeit von 07:14 Uhr bis 16.02.1994 10:01 Uhr die vorgeschriebene Lenkzeitunterbrechung von 0:45 Stunden nicht erhalten.
Die Gesamtdauer betrug 6:23 Stunden. Dieses ist eine Verkürzung um 0:22 Stunden.

Verstoß gegen Art 7 Abs 1 in Verbindung Art 7 Abs 2 und Abs 4 VO(EWG)3820/85

2. Sie haben am 15.02.1994 in der Zeit von 11:38 Uhr bis 16.02.1994 10:25 Uhr die anhängige Tagesruhezeit von 10:00 Stunden um 4:49 Stunden überschritten.
Die Gesamtdauer der Tagesruhezeit betrug 14:49

Verstoß gegen Art 8 Abs 1 VO(EWG)3820/85

3. Sie haben am 15.02.1994 den Zeitgruppenschalter nicht oder nicht richtig bedient.
Hierdurch war die Kontrolle erschwert

Verstoß gegen Art 15 Abs 2 VO(EWG)3821/85

4. Sie haben am 15.02.1994 das Schaublatt unvollständig bzw. unleserlich beschriftet.
Hierdurch war die Kontrolle erschwert

Verstoß gegen Art 15 Abs 5 VO(EWG)3821/85

5. Sie haben am 15.02.1994 das Schaublatt nicht mit ihrem Namen versehen oder der Name ist unleserlich bzw. sie haben einen falschen Namen eingetragen.
Hierdurch war die Kontrolle erschwert

Verstoß gegen Art 15 Abs 5 VO(EWG)3821/85

6. Sie haben am 17.02.1994 in der Zeit von 14:53 Uhr bis 17.02.1994 20:26 Uhr die vorgeschriebene Lenkzeitunterbrechung von 0:45 Stunden nicht erhalten.
Die Gesamtdauer betrug 6:18 Stunden. Dieses ist eine Verkürzung um 0:27 Stunden.

Verstoß gegen Art 7 Abs 1 in Verbindung Art 7 Abs 2 und Abs 4 VO(EWG)3820/85

Monitoring of the Implementation of Digital Tachograph
MIDT

EQUIPMENT & SOFTWARE

Website : www.eu-digitaltachograph.org
E-mail : secretariat@eu-digitaltachograph.org

90 Anzeige Muster I

Polizeipräsidium Musterstadt
Verkehrsdienst
Musterstraße 1, 00093 Musterstadt
(Behörde/Dienststelle)
Ordnungswidrigkeiten-Anzeige
Sozialvorschriften im Straßenverkehr

Musterstadt, 10.07.2000

(Anzeigenname)

gegen: | Fahrer(in) | Halter(in) | Unternehmer(in) | Beauftragte(r)

Kontrollort: Hasenstamm A3
Kontrolldatum: 10.10
Abfahrtsort / über / mit Grenzübergang: Hamburg
amtl. Kennz.: 123ABC
Fz.-Id.-Nr.: WMB6jw4454hgz
Fahrtenschreiber-Nr.: 0471760815
Fahrzeugart: LKW
Fabrikat Kz.: DB
Fabrikat Anhänger / Auflieger:
Schaltrolle: x JA / NEIN
Amtl. Kennzeichen Kz.: MD0561
Amtl. Kennzeichen Anhänger / Auflieger:
Zwerg(e) Fahrer(in): x JA / NEIN
Zul. Gesamtgewicht Kz.: 7,5
Zul. Gesamtgewicht Anhänger / Auflieger:

x Fahrer(in)
Familienname / Geburtsname / Vorname: Mustermann 0140 Max
Geburtsdatum: 06.06.1964
Geburtsort:
Anschrift:
FS-Klasse:
ausgestellt am:
durch:
Aushändigung: JA x NEIN
Hauptarbeitgeber:

Halter(in)
Unternehmer(in)
Beauftragte(r)
Familienname / Geburtsname / Vorname:
Geburtsdatum:
Geburtsort:
Anschrift:
Betriebssitz / Name / Anschrift / Gewerbeart:

Verletzte Vorschriften (Vorsch. auf Seite 2 kontrollieren)

x | Kontrollgerät | Type lt. § | Nr. | Messbereich

x	nicht ordnungsgemäß geeicht		nicht im Betrieb		nicht ordnungsgemäß in Betrieb
	nicht geeicht		Zeitgruppe nicht geschaltet		Verplombung beschädigt
x	Plaketten überschritten		Zeitgruppe falsch geschaltet		Verplombung fehlt
	Sonstiges				

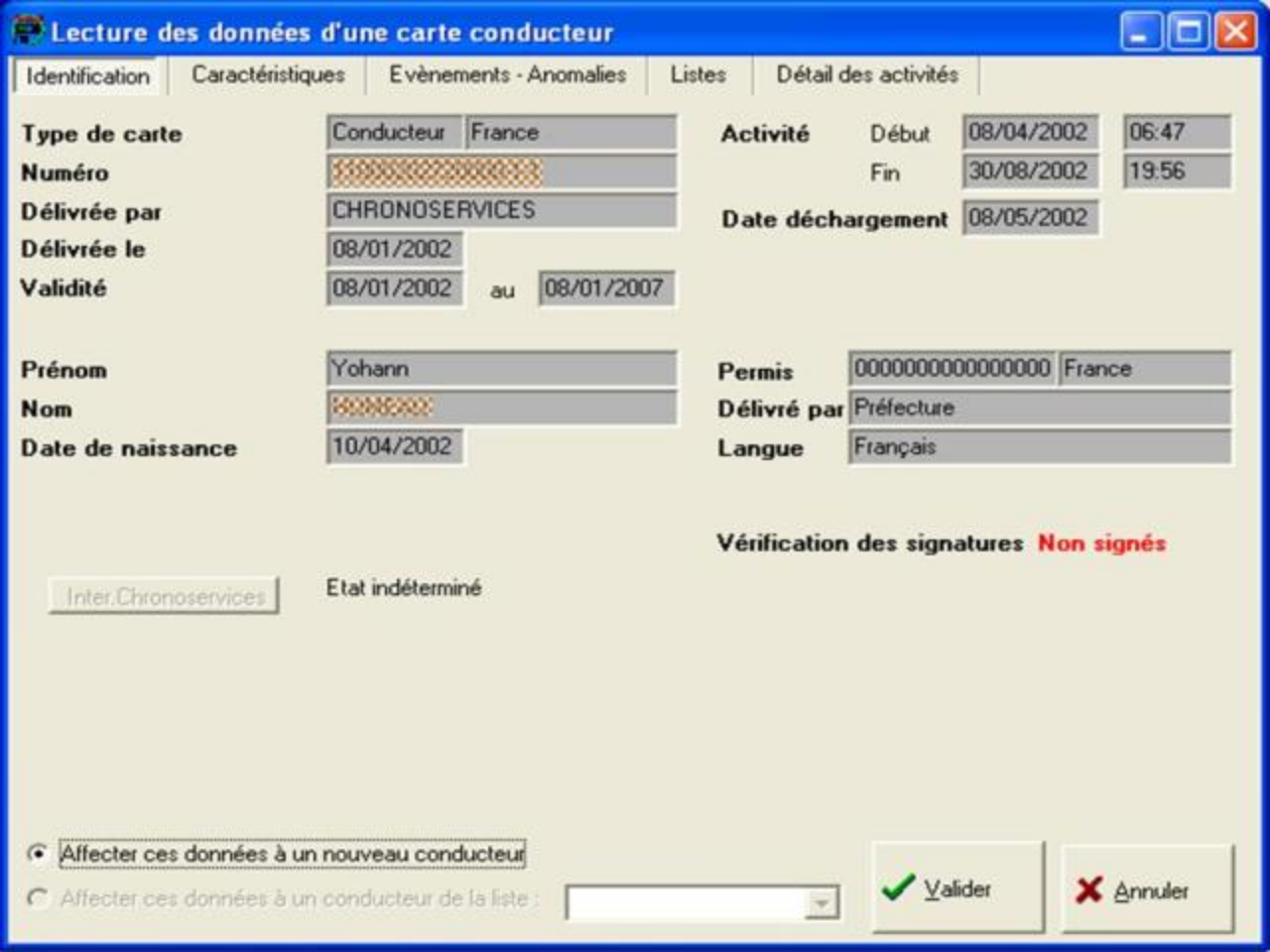
x	Schaublatt		Tagesschaublatt		Pers. Kontrollzeit
	Arbeitszeiten		Lieferfahrten		kein Nachweis § 4 FPersV
x	nicht ordnungsgemäß geeicht		nicht geeicht		des Vortages fehlt
	nicht passend für Gerät(e)		nicht ausgewechselt		der Vortage fehlen
	keine Kreisel-Zeichnung		zu wenig Einschübe		mehr als 7 Arbeitszeitnachweis
	Sonstiges				

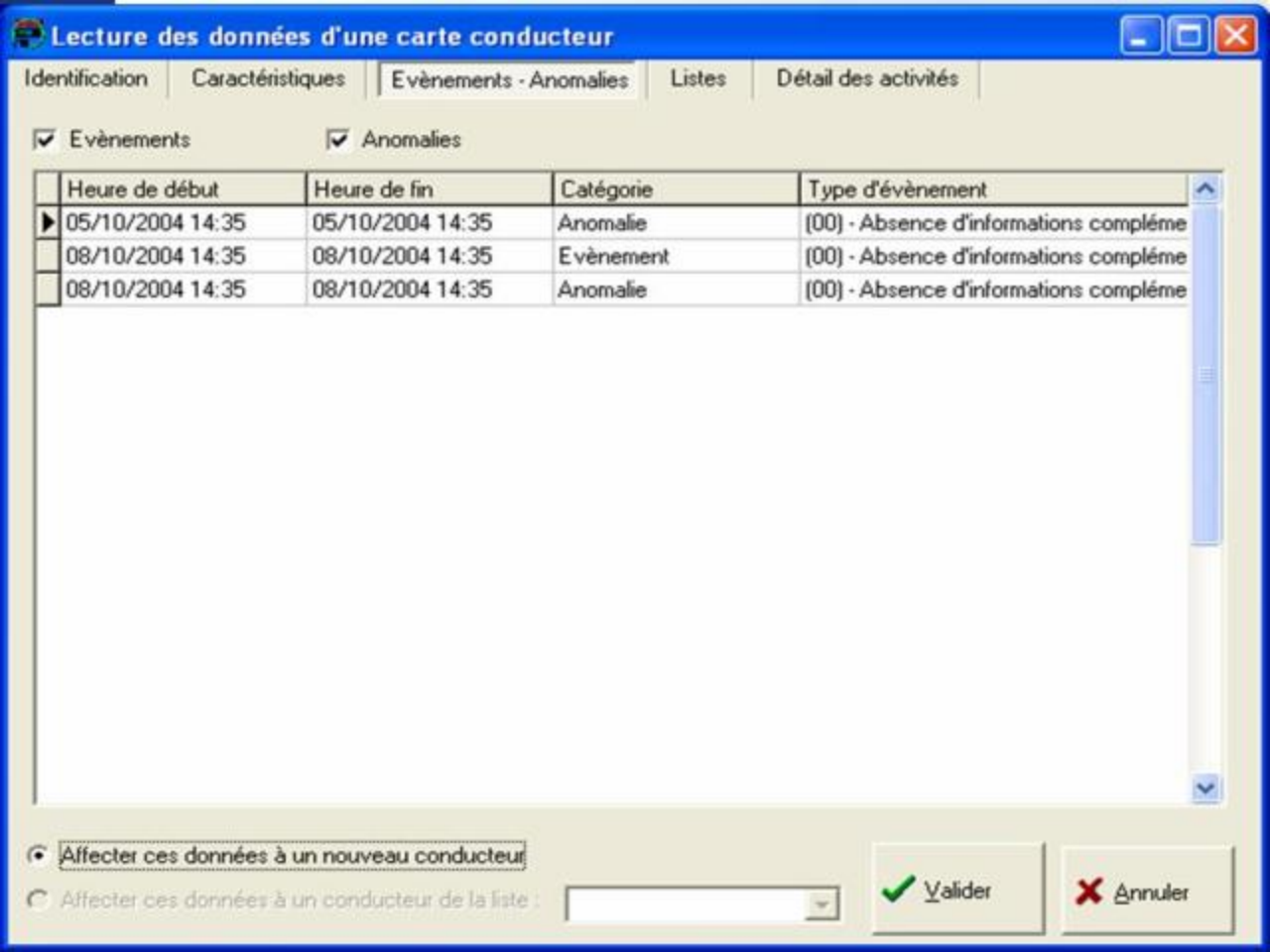
x	Lenkzeiten		Arbeitszeiten		Ruhezeiten
	x Lenkzeit überschritten		Tagesdienstzeit überschritten		Tägliche Ruhezeit nicht eingehalten
	Lenkzeit nicht ausreichend unterbrochen				
	Sonstiges				

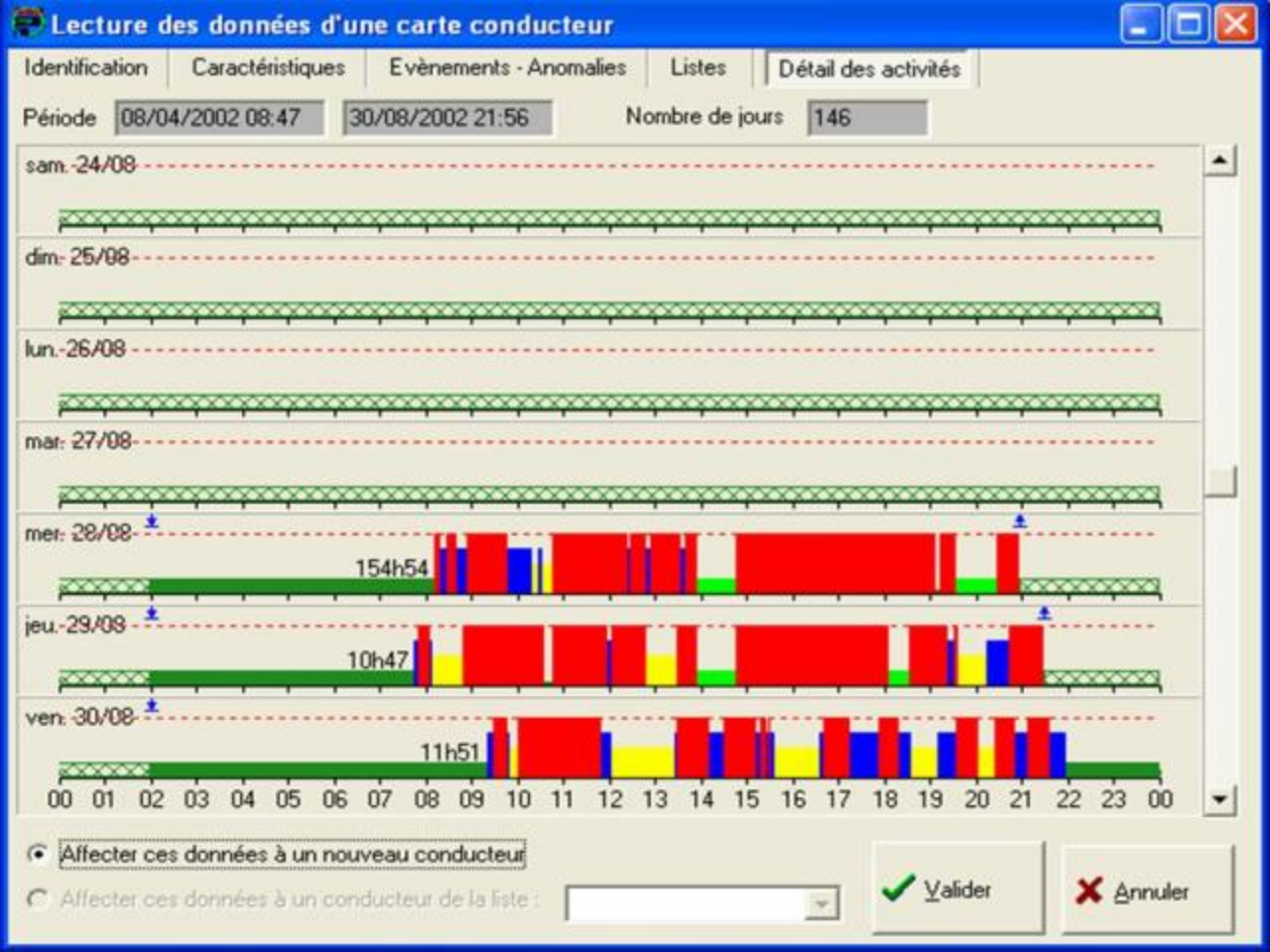
Anhörungsbogen versandt am: | KBA-Anfrage versandt am:

nicht zurückgesandt | Einstellung des Verfahrens – siehe Rückseite –

O.C.T.E.T. (V1.00)
OCTET
Contrôleur :
M. Guy
Lieu :
Bureau
Contrôle en cours :
Imprimer
Lecture fichier carte
Lecture fichier tachy
Déchargement tachy
Ex + For
Contrôle
Entreprise
0
Conducteurs
2
Véhicules
Utilitaires
Quitter
Description
Lieu
Bulletin de contrôle
Liste des contrôles
R 30 GS 18/01/2005 F 5949 WS 49
R 30 GS 02/03/2005 F 586 PHS 75
R 30 GS 18/01/2005 F4314 XY 49
E 30 GL 14/02/2006
Contrôle en entreprise
Contrôleur
Civilité
M.
Prénom
Guy
Nom
Fonction ou Grade
Inspecteur ppl
Matricule
Date du contrôle
14/02/2006
16:30
Début de la période contrôlée
10/02/2006
Entreprise
Résumé
Nombre de conducteurs
0
Nombre de véhicules
2
Nombre de journées
Nombre d'infractions
0
Créer
Modifier
Supprimer
Ouvrir
Cloturer
Valider
Annuler


Lecture des données d'une carte conducteur
Identification
Caractéristiques
Evènements - Anomalies
Listes
Détail des activités
Type de carte
Conducteur
France
Numéro
Délivrée par
CHRONOSERVICES
Délivrée le
08/01/2002
Validité
08/01/2002
au
08/01/2007
Activité
Début
08/04/2002
06:47
Fin
30/08/2002
19:56
Date déchargement
08/05/2002
Prénom
Yohann
Nom
Date de naissance
10/04/2002
Permis
0000000000000000
France
Délivré par
Préfecture
Langue
Français
Vérification des signatures
Non signés
Inter.Chronoservices
Etat indéterminé
Affecter ces données à un nouveau conducteur
Affecter ces données à un conducteur de la liste :
Valider
Annuler


Lecture des données d'une carte conducteur
Identification
Caractéristiques
Evènements - Anomalies
Listes
Détail des activités
Evènements
Anomalies
Heure de début
Heure de fin
Catégorie
Type d'évènement
05/10/2004 14:35
05/10/2004 14:35
Anomalie
(00) - Absence d'informations compléme
08/10/2004 14:35
08/10/2004 14:35
Evènement
(00) - Absence d'informations compléme
08/10/2004 14:35
08/10/2004 14:35
Anomalie
(00) - Absence d'informations compléme
Affecter ces données à un nouveau conducteur
Affecter ces données à un conducteur de la liste :
Valider
Annuler


Lecture des données d'une carte conducteur
Identification
Caractéristiques
Evènements - Anomalies
Listes
Détail des activités
Période
08/04/2002 08:47
30/08/2002 21:56
Nombre de jours
146
sam. 24/08
dim. 25/08
lun. 26/08
mar. 27/08
mer. 28/08
154h54
jeu. 29/08
10h47
ven. 30/08
11h51
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 00
Affecter ces données à un nouveau conducteur
Affecter ces données à un conducteur de la liste :
Valider
Annuler

THE PRINTOUTS

People
Company
Controller
Driver
Workshop/test station
Manufacturer
Equipment
Driver slot
Co-driver slot
Card
Clock
Display
External storage
Power supply
Printer/printout
Sensor
Tyre size
Vehicle/vehicle unit
Activities
Available
Driving
Rest
Work
Break
Unknown
24h
BASIC PICTOGRAMS: 38
PICTOGRAM COMBINATIONS: 46

BASIC PICTOGRAMS

People	Actions	Modes of operation
Company		Company mode
Controller	Control	Control mode
Driver	Driver	Operational mode
Workshop/test station	Inspection/calibration	Calibration mode
Manufacturer		

Activities	Duration
Available	Current availability period
Driving	Continuous driving time
Rest	Current rest period
Work	Current work period
Break	Cumulative break time
Unknown	

Equipment	Functions
Driver slot	
Co-driver slot	
Card	
Clock	
Display	Displaying
External storage	Downloading
Power supply	
Printer/printout	Printing
Sensor	
Tyre size	
Vehicle/vehicle unit	

BASIC PICTOGRAMS

Specific conditions

OUT	Out of scope
	Ferry/train crossing

Miscellaneous

!	Events	×	Faults
	Start of daily work period		End of daily work period
	Location	M	Manual entry of driver activities
	Security		Speed
	Time	Σ	Total/summary

Qualifiers

24h	Daily
|	Weekly
||	Two weeks
→	From or to

PICTOGRAM COMBINATIONS

Miscellaneous

	Control place		
	Location start of daily work period		Location end of daily work period
	From time		To time
	From vehicle		
OUT→	Out of scope begin	→OUT	Out of scope end

Cards

	Driver card
	Company card
	Control card
	Workshop card
---	No card

Driving

	Crew driving
|	Driving time for one week
||	Driving time for two weeks

Printouts

24h	Driver activities from card daily printout
24h	Driver activities from VU daily printout
! ×	Events and faults from card printout
! ×	Events and faults from VU printout
	Technical data printout
>>	Over speeding printout

PICTOGRAM COMBINATIONS

Events

- Insertion of a non valid card
- Card conflict
- Time overlap
- Driving without an appropriate card
- Card insertion while driving
- Last card session not correctly closed
- Over speeding
- Power supply interruption
- Motion data error
- Security breach
- Time adjustment (by workshop)
- Over speeding control

Faults

- Card fault (driver slot)
- Card fault (co-driver slot)
- Display fault
- Downloading fault
- Printer fault
- Sensor fault
- VU internal fault

Manual entries procedure

- Still same daily work period?
- End of previous work period?
- Confirm or enter location of end of work period
- Enter start time
- Enter location of start of work period.

Note: Additional pictogram combinations to form printout block or record identifiers are defined in Appendix 4.

DEFAULT DISPLAY

Activities

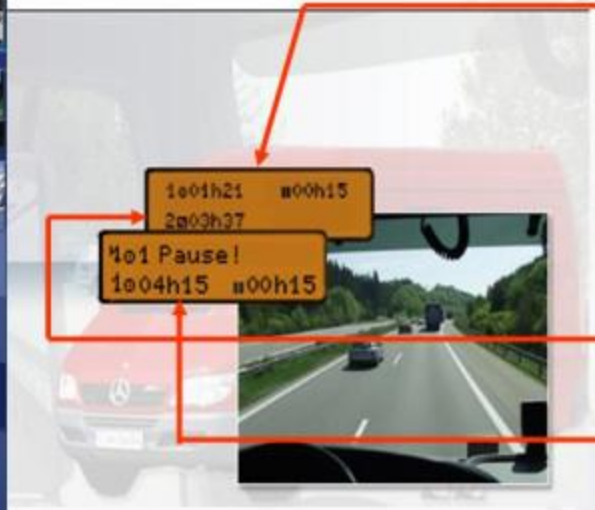
- Available
- Driving
- Rest
- Work
- Break
- Unknown

People

- Company
- Controller
- Driver
- Workshop/test station
- Manufacturer

Default display	
Local time	hh:mm
Mode of operation	O
Information related to the driver	1 Dhhhmm ▮▮hhhmm
Information related to the co-driver	2 Dhhhmm
Out of scope condition opened	OUT

DISPLAY DURING DRIVING

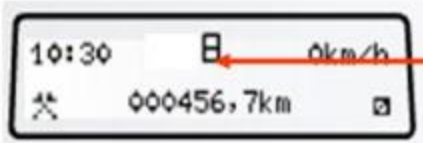


Driver's continuous driving time and cumulative break time

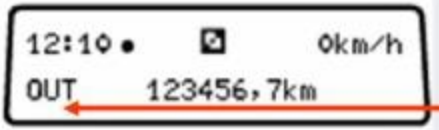
Information related to the co-driver.

Exceeding continuous driving time

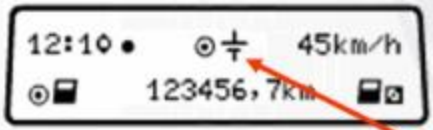
DISPLAY DURING DRIVING

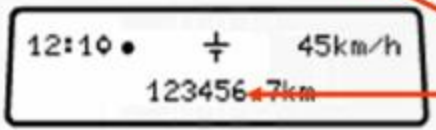


VU not activated.



Out of scope





Not enough power supply during driving

MAIN MENU OF THE TACHOGRAPH

Driver 1/2:
- Daily printout / Events (by chosen day)

Vehicle:
- Daily printout / Events / Speed (by chosen day)
- Technical data

Driver 1/2:
- Location Start & End

Vehicle:
- Driving out of scope
- Transfer Ferryboat / Train
- Changing local time
- Adjusting UTC time

Driver 1/2:
- Daily printout / Events (by chosen day) / Driving time

Vehicle:
- Daily printout / Events / Speed (by chosen day)
- Technical data
- Company logged in

PRINTOUTS

Printouts are only possible if:

- the vehicle doesn't drive.
- the contact key is turned on,
- there is enough paper available

Where the vehicle is fitted with recording equipment in conformity with Annex IB, **the employer and the driver shall ensure** that, taking into account the length of the period of service, the **printing on request referred to in Annex IB can be carried out correctly** in the event of an inspection.

DIFFERENT PRINTOUTS (from 00:00 to 24:00)

There are 6 types of printouts:

- 2 relate to drivers' activities: one comes from the VU, the other one from the driver card;

- 2 relate to events and faults: one from the VU, the other one from the driver card;

- 1 concerns technical data (vehicle, VU, etc…)

- 1 concerns over speeding.

DIFFERENT PRINTOUTS (from 00:00 to 24:00)

```
T 21.07.2005 10:09 (UTC)
24h
F /300000000015260 0 0
  11.03.2010
Mr Conducteur 1734 TES
  Prénom
F /100000000017340 0 0
  11.03.2010
A ABCDEFG1234567890
  D / VS-SV 111
S SiemensVDO Automotive
  AG
  1381.2072000001
T Siemens VDO Automotive
  AG
TD /VDO 10 0009 0 0 0
T 24.02.2005
F /300000000015260 0 0
T 20.07.2005 05:47 T
      21.07.2005 19
A D / VS-SV 111
      2 219 km
X 00:00 09:59 09h59 oo
```

```
T 28.07.2005 07:27 (UTC)
24h
Mr Conducteur 1733 TES
  Prénom
F /100000000017330 0 0
  11.03.2010
F /300000000015260 0 0
  11.03.2010
A ABCDEFG1234567890
  D / VS-SV 111
```

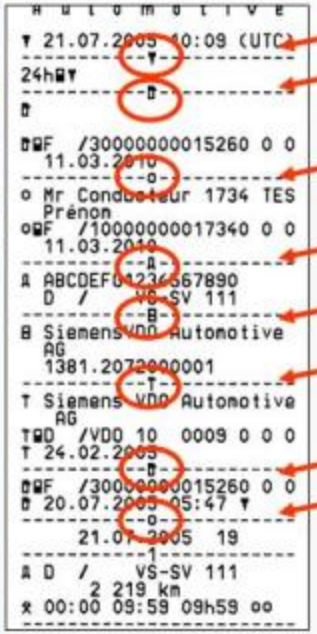
```
T 22.07.2005 05:30 (UTC)
!x
F /300000000015260 0 0
  11.03.2010
Mr Conducteur 1733 TES
  Prénom
F /100000000017330 0 0
  11.03.2010
A ABCDEFG1234567890
```

```
T 18.07.2005 05:23 (UTC)
T
Entreprise 1664 TEST
F /400000000016640 0 0
  11.03.2010
```

Printouts

24h F T	Driver activities from card daily printout
24h A T	Driver activities from VU daily printout
! X F T	Events and faults from card printout
! X A T	Events and faults from VU printout
T T	Technical data printout
>> T	Over speeding printout

PRINTOUTS – BLOCK IDENTIFIER



- Type of printout
- Card holder identification (inserted during the printout)
- Card holder identification
- Vehicle identification
- VU identification
- Last calibration of the recording equipment
- Last control (by a control officer)
- Driver activities stored on a card in order of occurrence

PRINTOUTS – UTC
(Universal Time Coordinated)

```
 H u t o m d t i v e
▼ 21.07.2005 10:09 (UTC)
-----------▼-----------
24h▼▼
-----------▯-----------
▯
▯▯F  /30000000015260 0 0
  11.03.2010
-----------o-----------
o Mr Conducteur 1734 TES
  Prénon
o▯F  /10000000017340 0 0
  11.03.2010
-----------A-----------
A ABCDEFG1234567890
  D  /    VS-SV 111
-----------B-----------
B SiemensVDO Automotive
  AG
  1381.2072000001
-----------T-----------
T Siemens VDO Automotive
  AG
T▯D  /VDO 10   0009 0 0 0
T 24.02.2005
-----------▯-----------
▯▯F  /30000000015260 0 0
▯ 20.07.2005 05:47 ▼
-----------o-----------
     21.07.2005  19
-----------1-----------
A D  /    VS-SV 111
       2 219 km
x 00:00 09:59 09h59 oo
-----------------------
```

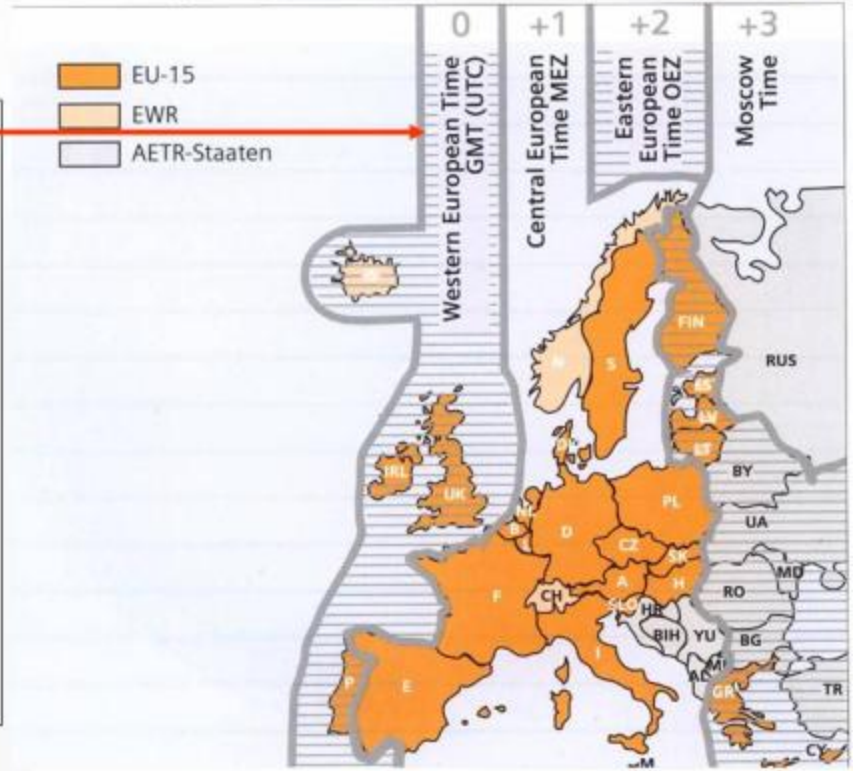


Figure publiched by Siemens VDO

DAILY PRINTOUT from the DC

08.04.2005 13:51 (UTC)

24h

DOUANES

D /45676543234987 3 2

31.10.2008

Conducteur

Pierre le Chauffeur

D /98653587652987 1 4

08.04.2006

ABC67123456349876

D /K-MD 337

Date and time (UTC) at which the document is printed

BLOCK identifier „printout"

Type of printout
Driver activities from card daily printout

BLOCK identifier „control officer" / Card holder identific.

Card holder surname / first name(s) (if any)
Card identification *(watch the index)*
Card expiry date (if any)

BLOCK identifier „driver" / Card holder identification

Card holder surname / first name(s) (if any)
Card identification *(watch the index)*
Card expiry date (if any)

BLOCK identifier „vehicle"

(VIN)
Registering Member State and VRN.

DAILY PRINTOUT from the DC

Fabricant XYZ
2357.23344565723
Atelier XY
D /98765432164729 2 3
13.03.2005
D /90897867564534 2 3
05.04.2005 10:52
07.04.2005 157
00:00 05:00 05h00
05:00 05:12 00h12

BLOCK identifier „VU"

VU manufacturer's name
VU part number

BLOCK identifier „workshop"

Workshop name
Workshop card identification
Date of the (last) calibration

BLOCK identifier „control officer" (Last control)

Controller's card identification
Control date, time and type
Type of the control: Up to four pictograms. The type can be (a combination) of: Card downloading, VU downloading, printing, Displaying

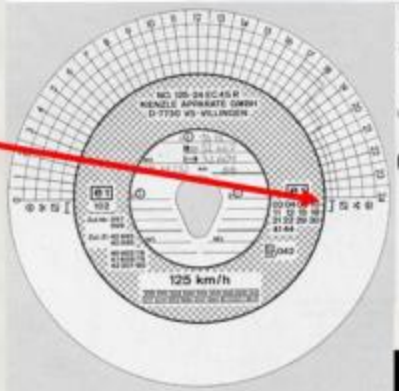
BLOCK identifier „driver"
Driver activities stored on a card in order of occurrence

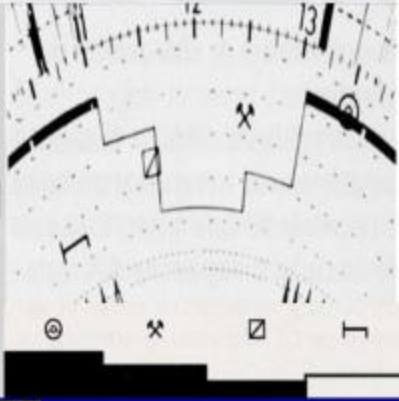
Enquiry date (calendar day subject of the printout)
+ Daily card presence counter

Period during which the card was not inserted

Activity **manually** entered
Activity pictogram, start and end time (included), duration

MANUAL ENTRY OF ACTIVITIES BY DRIVERS (1360/2002 – 6.2)





When, as a result of **being away from the vehicle**, a driver is unable to use the equipment fitted into the vehicle, the periods of time indicated in paragraph 3, second indent **(b), (c) and (d)** below shall be entered on the sheet, either **manually**, by **automatic recording** or **other means**, legibly and without dirtying the sheet

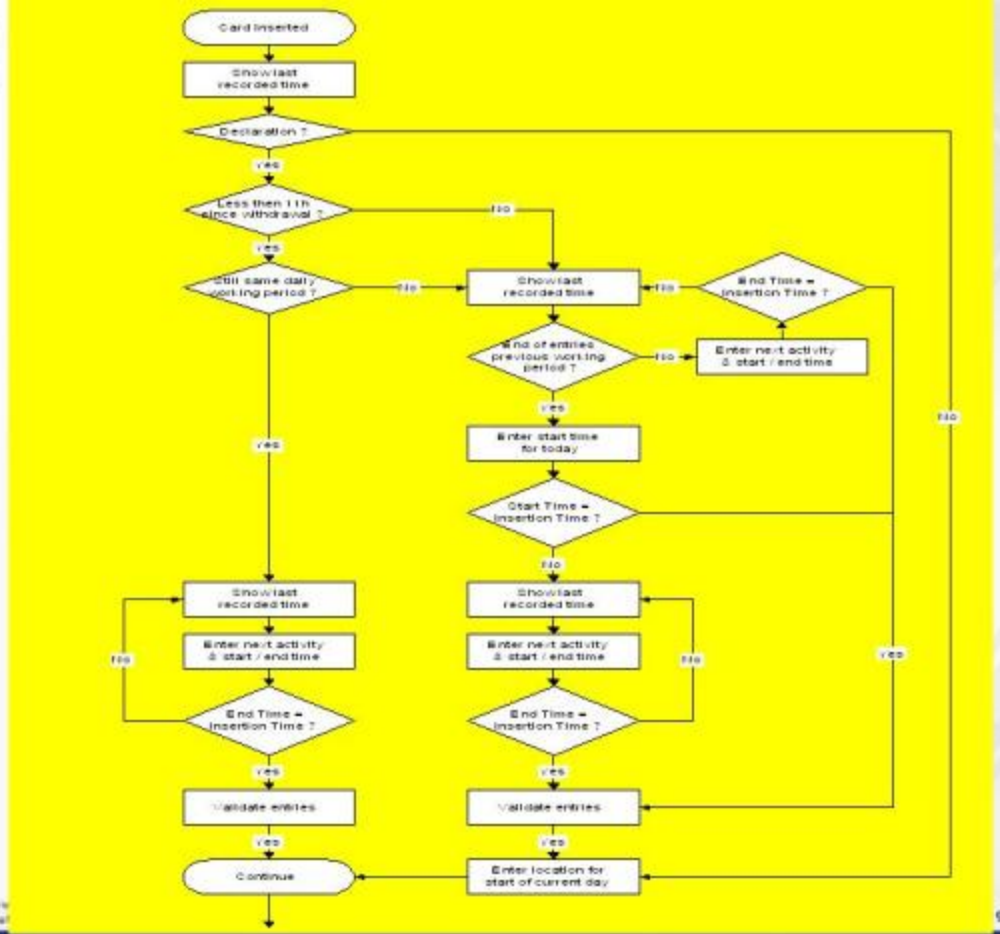
(see also amendment new 3820)

a) under the sign: Driving time

b) under the sign: All other periods of work

c) under the sign: Other periods of availability, namely

d) under the sign: Breaks in work and daily rest periods



Website : www
E-mail : secret

graph

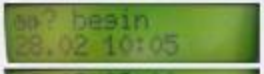
MANUAL ENTRY OF ACTIVITIES BY DRIVERS (1360/2002 – 50 / 50bis)

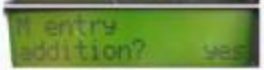
Last withdrawal of the card (22.02.06 15:34)

End of the previous shift

Begin of a new shift

Insertion of the card (27.02.06 18:28)





Last withdrawal of the card (26.02.06 21:02)

Manual entry of the end of the previous shift (26.02.06 23:20)

Manual entry of the beginning of the new shift (28.02.06 09:00)

Insertion of the card (28.02.06 10:05)

DAILY PRINTOUT from the DC

Fabricant XYZ
2357.23344565723
Atelier XY
D /98765432164729 2 3
13.03.2005
D /90897867564534 2 3
05.04.2005 10:52
07.04.2005 157
00:00 05:00 05h00
05:00 05:12 00h12

BLOCK identifier „VU"

VU manufacturer's name
VU part number

BLOCK identifier „workshop"

Workshop name
Workshop card identification
Date of the (last) calibration

BLOCK identifier „control officer" (Last control)

Controller's card identification
Control date, time and type
Type of the control: Up to four pictograms. The type can be (a combination) of: Card downloading, VU downloading, printing, Displaying

BLOCK identifier „driver"
Driver activities stored on a card in order of occurrence

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

Period during which the card was not inserted

Activity **manually** entered
Activity pictogram, start and end time (included), duration

DAILY PRINTOUT from the DC

```
---------- 1 ----------
D  /K-MD 337
      1 272 km
   05:12  05:34  00h22
   05:34  06:01  00h27  00
   06:01  07:35  01h34  00
   07:45  07:45  00h10  00
      1 364  km;        92 km
----------------------------
?  07:45  08:03  00h18
---------- 2 ----------
D  /K-MD 337
      1 364 km
   08:03  10:24  02h21  00
   10:24  11:03  00h39  00
      1 364 km;
```

Card insertion in slot 1 / Record identifier

Vehicle registering Member State and VRN

Vehicle odometer at card insertion

Activity pictogram, start and end time (included), duration,

crew status (crew pictogram if CREW, blanks if SINGLE),

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

Period during which the card was not inserted

Card insertion in slot 2 / Record identifier;
2 = Slot pictogram

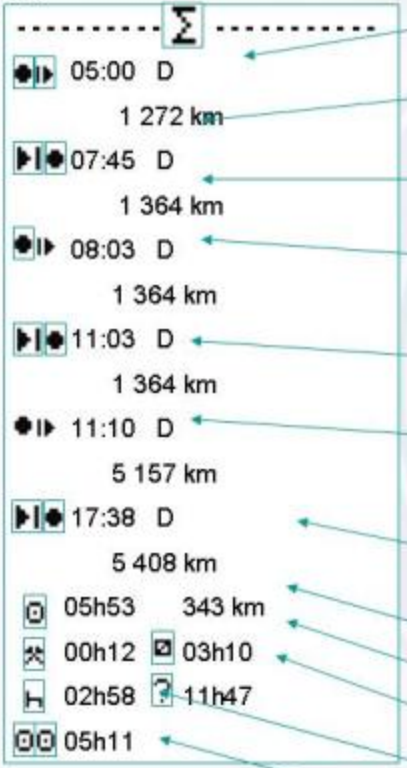
DAILY PRINTOUT from the DC

```
----------------------
? 11:03  11:10  00h07
---------- 1 ----------
A D  /K-SL 182
          5 157 km
  11:10  13:40  02h30
  13:40  14:57  01h17  *
  14:57  15:18  00h21
  15:18  16:10  00h52
  16:10  17:38  01h28
        5 408 km;      251 km
----------------------
? 17:38  00:00  06h22
```

Period during which the card was not inserted;
(changing from vehicule K-MD 337 to K-SL 182

Activity pictogram, start and end time (included), duration,
rest periods of at least one hour are tagged with a star*

DAILY PRINTOUT from the DC



BLOCK identifier „Daily summery"

Entry of place where a daily work period **begins**. Location begin pictogram, time, country (region), Odometer (K-MD 337 – Slot 1)

Entry of place where a daily work period **ends**. Location end pictogram, time, country (region), Odometer (K-MD 337 – Slot 1)

Entry of place where a daily work period **begins**. Location begin pictogram, time, country (region), Odometer (K-MD 337 – Slot 2)

Entry of place where a daily work period **ends**. Location end pictogram, time, country (region), Odometer (K-MD 337 – Slot 2)

Entry of place where a daily work period **begins**. Location begin pictogram, time, country (region), Odometer (K-SL 182 – Slot 1)

Entry of place where a daily work period **ends**. Location end pictogram, time, country (region), Odometer (K-SL 182 – Slot 1)

Activity totals (from a card)

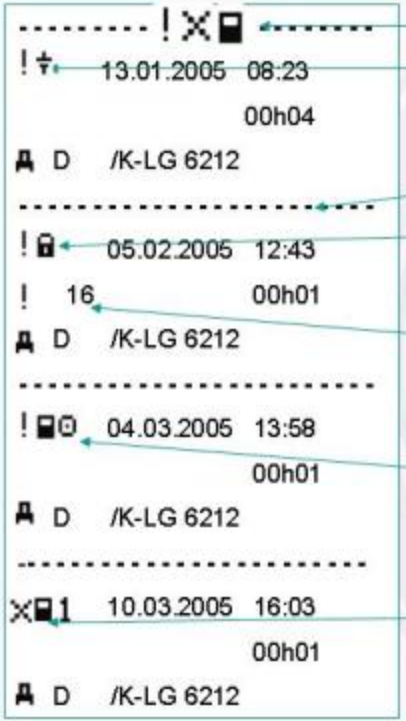
Total driving duration, distance travelled

Total working and availability duration

Total resting and unknown duration

Total duration of crew activities

DAILY PRINTOUT from the DC



BLOCK identifier last 5 "Events and Faults" from card

Event/fault pictogram „Power supply interruption", date time of start

Record identifier (separation between the last 5 records)

Event/fault pictogram „Security breach", date time of start

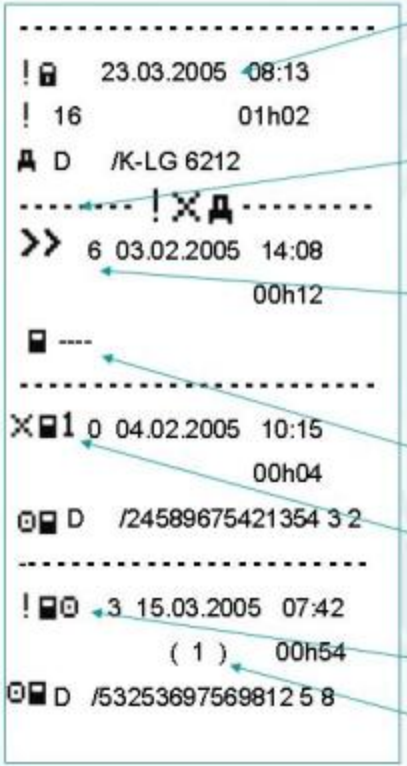
Additional event/fault code (if any), duration

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

Event/fault pictogram „Card insertion while driving", date time of start

Event/fault pictogram „Card fault (driver slot)", date time of start

DAILY PRINTOUT from the DC



Event/fault pictogram „ Security breach", date time of start

BLOCK identifier last 5 "Events and Faults" from VU

Event/fault pictogram „Over speeding", date time of start

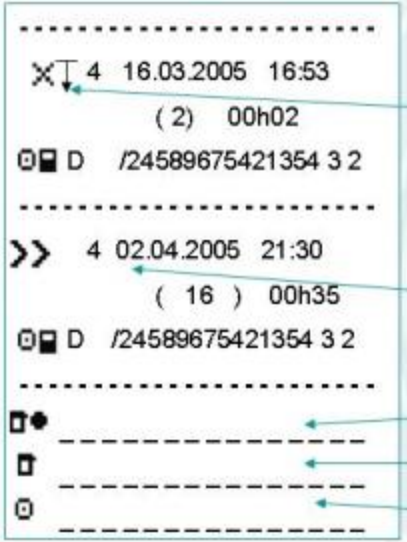
No card

Event/fault pictogram „Card fault (driver slot)", date time of start

Event/fault pictogram „Card insertion while driving", date time of start

Number of simelary events during that day

DAILY PRINTOUT from the DC



Event/fault pictogram „fault downloading", date time of start

Event/fault pictogram „Over speeding", date time of start

Hand-written information

Control Place

Controller's signature

Driver's signature

GETTING DATA VIA DISPLAY

Printout data are also readable (in the cabin of the vehicle)
two lines by two lines (one line printout = two line display),
in the same order
than the way they are shown on the various printouts.

- The evaluation of that data is quite difficult (see impossible)
- It can not be used as evidence for prosecuting

SO THIS SOLUTION WOULD REALLY NOT BE AN ISSUE FOR ENFORCEMENT

Conclusions of the Content of a complet AETR roadside check:

- **Recording equipment / Control device** (Visual or technical check: Approval, Installation plaque/calibration, seals, manipulations…) - (Need of a Control card for an effective check)
- ***Status of the WS card (lost, stolen…) -*** *(Need for an access to TACHOnet)*

- **Identification of the driver** (against the used Driver card and/or the printouts)
- **Status of the DC (lost, stolen…) -** (Need for an access to TACHOnet)

- **Driving and rest periods / Activities** (Need of the record sheets / DC / printouts for the current week and the last day of the previous week…)

Data from the Vehicle unit (VU) (Daily activities, Events, Speed (Speed limiter), Technical data)

- By download (Need of a control card and equipment (Download interface, PC, Software)
- By printout (Need of a control card to get all identities / or a DC for the identification of that driver)

Data from the Driver card (DC) (Daily activities… / Events)

- By download trough the VU (Need of a control card and equipment (Download interface, PC, Software)
- By download from a card reader (Need of equipment (Card reader, PC, Software)
- By printout through the VU (need of a control card to get all other identities)