

ISO Driving Licence Standards

UNECE WP.1

March/Sept 2011

Geneva

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Purpose of the presentation

- Background
 - Integrity of current IDP
 - Divergence in definition of driving licence codes
- Problem definition
 - Current needs & technology
 - EU 3rd Directive vs 2006 Amendment of Convention
- Suggestion/Proposal
 - Refer to ISO specification of driving licence card
 - Convergence in definition of driving licence codes

Limitations of Current IDP

- Easily copied, altered, or simulated and difficult for law enforcement authorities to detect fraudulent licences from genuine documents.
- Many non-government IDP issuing authorities do not query their respective government motor vehicle agencies to establish if the DDP presented is still valid and still current.
- There is no register/directory of national motor vehicle agency addresses for the inquiry and exchange of information among the agencies to verify the validity of a presented IDP.

Limitations of Current IDP

- Does not incorporate the ISO machine-assisted data storage technologies.
- Suspension or cancellation of domestic driving licence (DDL) or domestic driving permit (DDP) should result in an automatic suspension or cancellation of the IDP; however, the current system does not facilitate that.
- The IDP holder may circumvent disqualifications entered on their original IDP by obtaining a new IDP.




Limitations of Current IDP

- Validity of the IDP is currently limited to a maximum of 1 to 3 years, depending on the UN Convention followed.
- Requirement in 2006 Amendment of 1968 Vienna Convention that IDP must be accompanied by DDP:
 - Effectively renders IDP as translation only.
 - Places confidence in integrity of DDP, which may be of plastic or paper .
- DDP now becomes the focus of forgers and in many cases will not be able to withstand the test of time.





Divergence in driving licence codes

- 2006 Amendments to 1968 Vienna Convention come into effect on 29 March 2011
- EU 3rd Directive published on 20 Dec 2006

Table B.1 — Mandatory vehicle categories

Code	Description	Definition	Pictograph ^a
A	Motorcycles	Motorcycles, with or without a sidecar	
A^{EU}	Motorcycles	Motorcycles, with or without a sidecar and motor tricycles	
B	Light vehicles	Motor vehicles other than those in category A with a maximum authorized mass ^b not exceeding 3500 kilograms and having been designed and constructed to carry not more than eight passengers seats in addition to the driver's seat ; motor vehicles in this category may be combined with a trailer having a maximum authorized mass ^b which does not exceed 750 kilograms, or combinations of a tractor vehicle in category B and a trailer, the maximum authorized mass ^b of which exceeds 750 kilograms but does not exceed the unladen mass of the tractor vehicle, where the maximum authorized mass ^b of the combination does not exceed 3500 kilograms	
C	Goods vehicles	Motor vehicles other than those in category D and whose maximum authorized mass is over 3500 kilograms; motor vehicles in this category may be combined with a trailer having a maximum authorized mass ^b which does not exceed 750 kilograms	

Divergence in driving licence codes

Code	Description	Definition	Pictograph ^a
D	Passenger vehicles	Motor vehicles designed and constructed for the carriage of more than eight passengers in addition to the driver; motor vehicles in this category may be combined with a trailer having a maximum authorized mass ^b which does not exceed 750 kilograms	
BE	Light vehicles with trailers	Combination of motor vehicles consisting of the tractor vehicle in category B above and a trailer the maximum authorized mass ^b of which exceeds 750 kilograms and the unladen mass of the tractor vehicle (but the maximum authorized mass ^b of the combination does not exceed 3500 kilograms), or combinations of a tractor vehicle in category B and a trailer, the maximum authorized mass ^b of which exceeds 750 kilograms but does not exceed the unladen mass of the tractor vehicle (where the combined maximum authorised mass ^b exceeds 3500 kilograms)	
CE	Goods vehicles with trailers	Combination of motor vehicles consisting of the tractor vehicle in category C above and its trailer(s) a maximum authorized mass ^b exceeding 750 kilograms	
DE	Passenger vehicles with trailers	Combination of motor vehicles consisting of the tractor vehicle in category D above and its trailer has a maximum authorized mass ^b exceeding 750 kilograms	





^a The pictographs in the above table are examples and minor differences in the actual pictographs for each issuing authority are allowed.

^b "Maximum authorised mass" of a vehicle means the mass of the vehicle and its maximum load when the vehicle is ready for the road (Gross Vehicle Mass (GVM)).



[EU](#) Definition applicable to EU member states. EU superscript will not be shown on the licence as the EU flag depicted on licence is sufficient identification that the additional authorisation is limited to Europe.

Divergence in driving licence codes

Table B.2 — Optional vehicle subcategories

Code	Description	Definition	Pictograph ^a
<u>AM</u>	<u>Mopeds</u>	<u>Light two-wheel and three-wheel vehicles and light quadricycles with a maximum design speed of not more than xx^b km/h</u>	
A1	Light motorcycles	Light motorcycle with a cubic capacity not exceeding xxx^b cm^3 and of a power not exceeding xx^b kW, with or without a sidecar	
<u>A1^{EU}</u>	<u>Light motorcycles</u>	<u>Light motorcycle with a cubic capacity not exceeding xxx^b cm^3 and of a power not exceeding xx^b kW, with or without a sidecar, and motor tricycles of a power not exceeding xx^b kW</u>	
<u>A2</u>	<u>Medium motorcycles</u>	<u>Medium motorcycle with a power not exceeding xx^b kW, with or without a sidecar</u>	
B1	Light vehicles	Motor powered tricycles and quadricycles	
<u>B1^{EU}</u>	<u>Light vehicles</u>	<u>Motor powered quadricycles</u>	
C1	Medium sized goods vehicles	Motor vehicles other than those in category D and whose maximum authorized mass is over 3500 kilograms but not more than xxx^b kilograms; motor vehicles in this category may be combined with a trailer having a maximum authorized mass which does not exceed 750 kilograms	
D1	Medium sized passenger vehicles (e.g. minibuses)	Motor vehicles designed and constructed for the carriage of more than eight passengers but not more than xx^b passengers in addition to the driver; motor vehicles in this category may be combined with a trailer having a maximum authorized mass which does not exceed 750 kilograms	

Divergence in driving licence codes

Code	Description	Definition	Pictograph ^a
C1E	Medium sized goods vehicles with trailers	Combination of motor vehicles consisting of the tractor vehicle in category C1 above combined with a trailer having a maximum authorized mass exceeding 750 kilograms, provided that the maximum authorized mass of the combination does not exceed <u>xxxx^b</u> kilograms, and that the maximum authorized mass of the trailer does not exceed the unladen mass of the tractor vehicle	
<u>C1E^{EU}</u>	<u>Medium sized goods vehicles with trailers</u>	<u>Combination of motor vehicles consisting of the tractor vehicle in category C1 above combined with a trailer having a maximum authorized mass exceeding 750 kilograms, provided that the maximum authorized mass of the combination does not exceed <u>xxxx^b</u> kilograms, and that the maximum authorized mass of the trailer does not exceed the unladen mass of the tractor vehicle. Without prejudice to the provisions of type approval rules for the vehicles concerned, combinations of vehicles where the tractor vehicle is in Category B and its trailer has an authorised mass of over 3.500 kilograms provided that the authorised mass of the combination does not exceed 12.000 kilograms</u>	
D1E	Medium sized passenger vehicles (e.g. minibuses) with trailers	Motor vehicles in category D1 above combined with a trailer having a maximum authorized mass exceeding 750 kilograms, provided that the maximum authorized mass of the combination does not exceed <u>xxxx^b</u> kilograms, and that the maximum authorized mass of the trailer does not exceed the unladen mass of the tractor vehicle and the trailer is not used for the transport of persons.	

ISO/IEC 18013

- ISO/IEC JTC1/SC17/WG10
 - JTC 1 – Joint Technical Committee of ISO & IEC: Information Technology
 - SC17 – Steering Committee 17: Cards & Personal Identification
 - WG10 – Working Group 10: ISO Compliant Driving Licence
- Participation by both administrators and industry

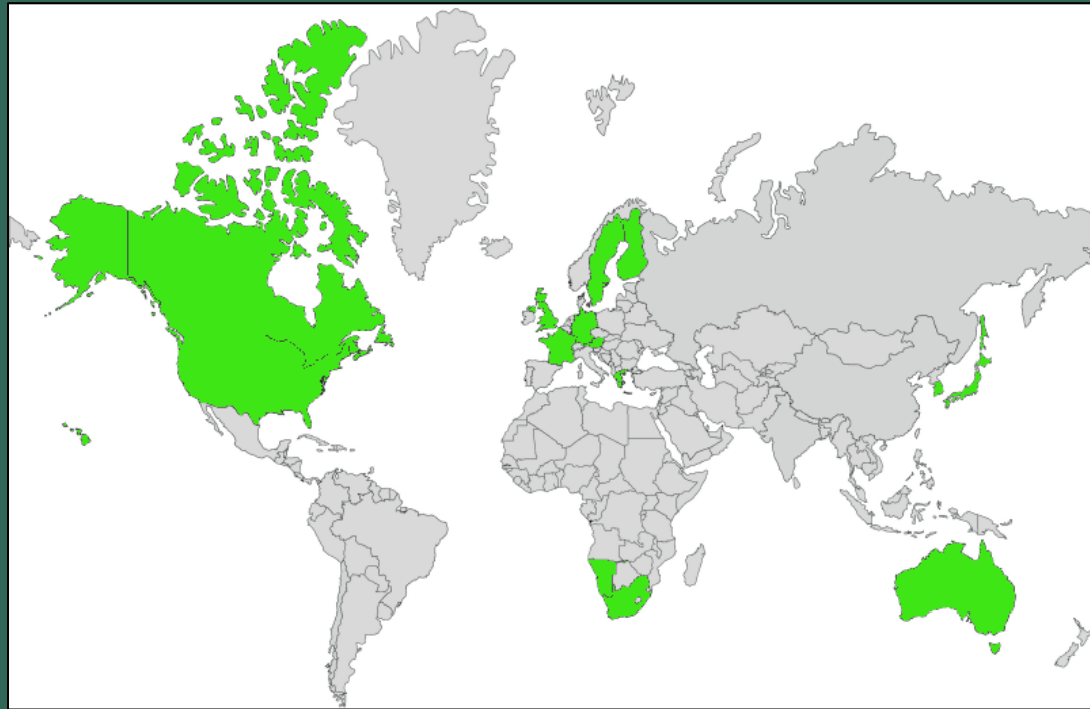
ISO/IEC 18013

- Currently consists of 3 parts:
 - Part 1: Physical format and human-readable properties
 - Part 2: Structure of machine-readable data
 - Part 3: Data protection and integrity validation methods
- Parts 1, 2 & 3 published as International Standards
- Work on Part 4 dealing with test methods has progressed to final draft international standard

ISO/IEC 18013

WG10 Participants:

- Australia
- Canada
- Finland
- France
- Germany
- Greece
- Japan
- Rep of Korea
- Namibia
- Netherlands
- Singapore
- South Africa
- Sweden
- Switzerland
- United Kingdom
- United States



ISO/IEC 18013

Ballot submitted to 44 countries (40 P-members), amongst others:

- Australia
- Canada
- China
- Czech Republic
- Denmark
- Ecuador
- Finland
- France
- Germany
- Greece
- India
- Ireland
- Israel
- Italy
- Japan
- Kenya
- Korea (Rep)
- Malaysia
- Netherlands
- New Zealand
- Nigeria
- Norway
- Philippines
- Romania
- Russian Federation
- Singapore
- South Africa
- Spain
- Sweden
- Switzerland
- United Kingdom
- United States

INTERNATIONAL
STANDARD

ISO/IEC
18013-1

First edition
2005-08-15

**Information technology — Personal
identification — ISO-compliant driving
licence —**

**Part 1:
Physical characteristics and basic data
set**

*Technologies de l'information — Identification des personnes — Permis
de conduire conforme à l'ISO —*

Partie 1: Caractéristiques physiques et jeu de données de base



Reference number
ISO/IEC 18013-1:2005(E)

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ISO/IEC 18013

- UN Conventions on Road Traffic of 1949 (Geneva) and 1968 (Vienna) specify an International Driving Permit (IDP)
- ISO/IEC 18013 specifies an “ISO compliant driving licence” (IDL) that can perform the function of both the IDP and a domestic driving licence/permit
- Number of signatories to Geneva Convention did not ratify and are not signatories of the Vienna Convention

ISO/IEC 18013

- From vehicle category and data content regulatory perspective ISO/IEC 18013-1 is compliant with both Geneva and Vienna Conventions, as well as European Union Driving Licence Codes, prior to 3rd Directive
- ISO/IEC 18013 allows flexibility for issuing jurisdictions to adapt (i.e. make more strict or add to) the ISO standard for domestic purposes without becoming non-compliant with ISO/IEC 18013

ISO/IEC 18013: Mandatory data fields

Item #	Data field reference code on IDL	Card zone placement	Data element name	Description/ Definition	Field maximum length/ type
a	1	Zone II	Family name	Last name, surname, or primary identifier, of the licence holder	V36AS
b	2	Zone II	Given names	First name(s), other name(s), or secondary identifier, of the licence holder	V36AS
c	3	Zone II	Date of Birth	Day, month, year on which the licence holder was born (if unknown, approximate Date of Birth)	F8N
d	4a	Zone II	Date of Issue	Date licence document was issued (same format as Date of Birth)	F8N
e	4b	Zone II	Date of Expiry	Date licence document expires (same format as Date of Birth)	F8N
f	4c	Zone II	Issuing Authority	Abbreviations may be used (see 4.10)	V65ANS
g	5	Zone II	Licence Number	The number assigned or calculated by the issuing authority	V25AN
h	6	Zone III	Portrait	A reproduction of the licence holder's portrait	(Image)
i	7	Zone II	Signature	A reproduction of the licence holder's signature, or usual mark, or thumb or finger print	(Image)
j	9	Zone II (may be repeated in Zone IV)	Categories of Vehicles	Vehicle types the licence holder is authorised to operate	V3AN (or Pictographs)
k	10	Zone II or IV	Date of issue per category	The date of issue for a specific class of vehicle if it is before the date of issue of the licence document (same format as Date of Birth)	F8N
l	11	Zone II or IV	Date of expiry per category	The date of expiry of the specific category if it expires before or after the date of expiry of the licence document (same format as	F8N








ISO/IEC 18013: Optional data fields

Item #	Data field reference code on IDL ^a	Card zone placement	Data element name	Description/ Definition	Field maximum length/ type
o	3	Zone II	Place of Birth	Country and municipality or state/province where the licence holder was born	V33A
p	4d	Zone II	Administrative Number	An audit control number assigned by the licensing authority	V25ANS
q	8	Zone II	Permanent Place of Residence	The place where the licence holder resides and/or may be contacted (street/house number, municipality etc.)	V108ANS
r	15	Zone II	Gender	Licence holder's gender: M for male, F for female	F1A
s	16	Zone II	Height (cm.)	Licence holder's height in centimetres	F3N
t	16	Zone II	Height (ft./in.)	Licence holder's height in feet 1), inches 2) for example. 509= 5ft 9in	F3N
u	17	Zone II	Weight (kg.)	Licence holder's weight in kilograms	F3N
v	17	Zone II	Weight (lb.)	Licence holder's weight in pounds	F3N
w	18	Zone II	Eye Colour	Licence holder's eye colour: blue, brown, black, hazel, green, grey, pink, dichromatic	V12A
x	19	Zone II	Hair Colour	Licence holder's hair colour: brown, black, blonde, grey, red/auburn, sandy, white, bald	V12A







NOTE Data field reference codes 13 & 14 are not used as they are designated for domestic use in the EC Directives and in the amendments to the Vienna Convention (proposed Rev.3 of WP.1, dated 5 Jan 2004).

^a The use of the reference code on the IDL is optional for the data elements in this table. However, if a reference code is used, it shall be the reference code listed in this table.

ISO/IEC 18013: Mandatory vehicle categories

Code	Description	Definition	Pictograph ^a
A	Motorcycles	Motorcycles, with or without a sidecar	
B	Light vehicles	Motor vehicles other than those in category A with a maximum authorized mass ^o not exceeding 3500 kilograms and having not more than eight seats in addition to the driver's seat; motor vehicles in this category may be combined with a trailer having a maximum authorized mass ^o which does not exceed 750 kilograms, or combinations of a tractor vehicle in category B and a trailer, the maximum authorized mass ^o of which exceeds 750 kilograms but does not exceed the unladen mass of the tractor vehicle, where the maximum authorized mass ^o of the combination does not exceed 3500 kilograms	
C	Goods vehicles	Motor vehicles other than those in category D and whose maximum authorized mass is over 3500 kilograms; motor vehicles in this category may be combined with a trailer having a maximum authorized mass ^o which does not exceed 750 kilograms	
D	Passenger vehicles	Motor vehicles used for the carriage of persons and having more than eight seats in addition to the driver's seat; motor vehicles in this category may be combined with a trailer having a maximum authorized mass ^o which does not exceed 750 kilograms	
BE	Light vehicles with trailers	Combination of motor vehicles consisting of the tractor vehicle in category B above and a trailer the maximum authorized mass ^o of which exceeds 750 kilograms and the unladen mass of the tractor vehicle (but the maximum authorized mass ^o of the combination does not exceed 3500 kilograms), or combinations of a tractor vehicle in category B and a trailer, the maximum authorized mass ^o of which exceeds 750 kilograms but does not exceed the unladen mass of the tractor vehicle (where the combined maximum authorised mass ^o exceeds 3500 kilograms)	
CE	Goods vehicles with trailers	Combination of motor vehicles consisting of the tractor vehicle in category C above and its trailer(s) a maximum authorized mass ^o exceeding 750 kilograms	
DE	Passenger vehicles with trailers	Combination of motor vehicles consisting of the tractor vehicle in category D above and its trailer has a maximum authorized mass ^o exceeding 750 kilograms	

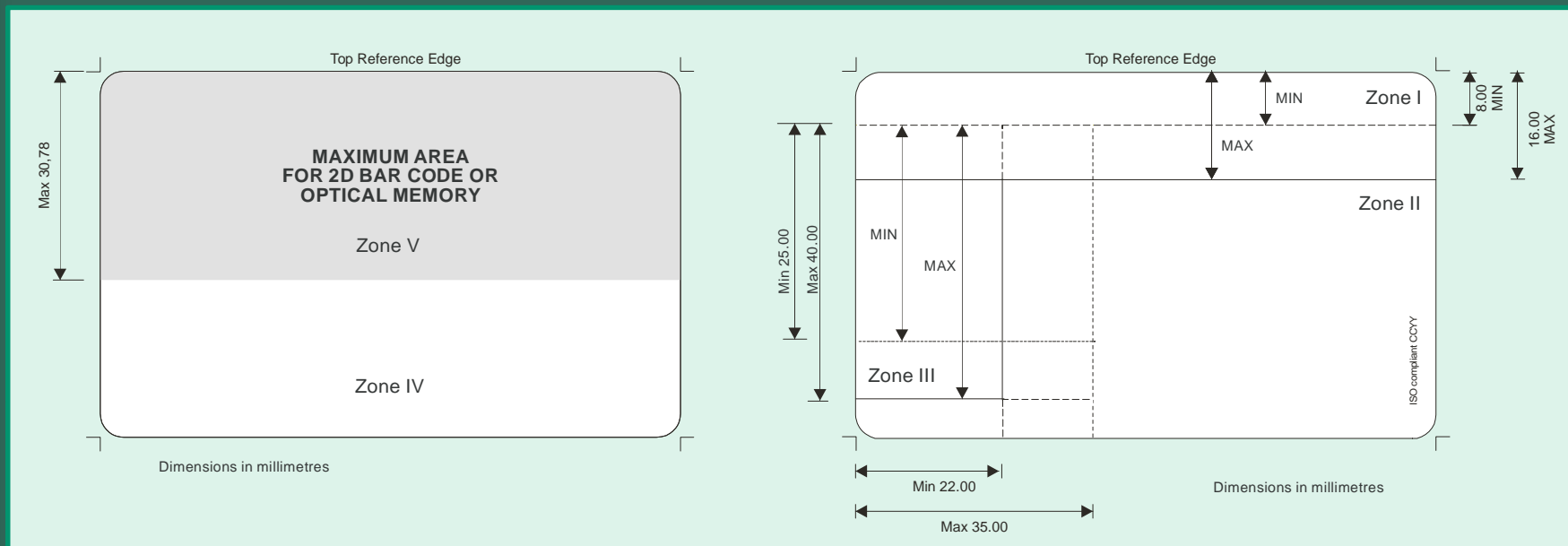
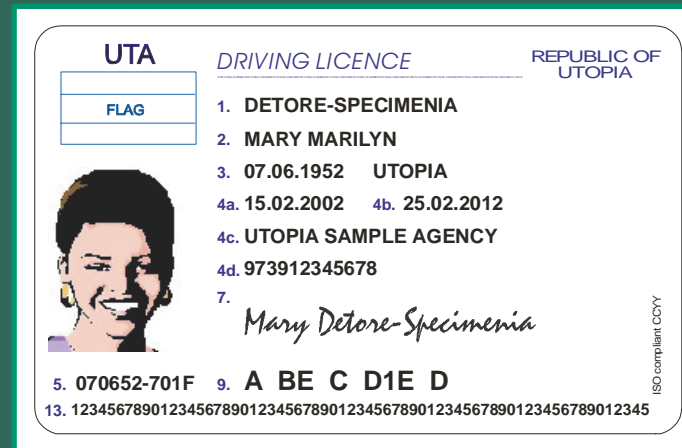
ISO/IEC 18013: Optional vehicle categories

Code	Description	Definition	Pictograph ^a
A1	Light motorcycles	Light motorcycle with a cubic capacity not exceeding <u>xxx^o cm³</u> and of a power not exceeding <u>xx^o kW</u> , with or without a sidecar	
B1	Light vehicles	Motor powered tricycles and quadricycles	
C1	Medium sized goods vehicles	Motor vehicles other than those in category D and whose maximum authorized mass is over 3500 kilograms but not more than <u>xxxx^o kilograms</u> ; motor vehicles in this category may be combined with a trailer having a maximum authorized mass which does not exceed 750 kilograms	
D1	Medium sized passenger vehicles (e.g. minibuses)	Motor vehicles used for the carriage of persons and having more than eight seats but not more than <u>xx^o seats</u> in addition to the driver's seat; motor vehicles in this category may be combined with a trailer having a maximum authorized mass which does not exceed 750 kilograms	
C1E	Medium sized goods vehicles with trailers	Combination of motor vehicles consisting of the tractor vehicle in category C1 above combined with a trailer having a maximum authorized mass exceeding 750 kilograms, provided that the maximum authorized mass of the combination does not exceed <u>xxxx^o kilograms</u> , and that the maximum authorized mass of the trailer does not exceed the unladen mass of the tractor vehicle	
D1E	Medium sized passenger vehicles (e.g. minibuses) with trailers	Motor vehicles in category D1 above combined with a trailer having a maximum authorized mass exceeding 750 kilograms, provided that the maximum authorized mass of the combination does not exceed <u>xxxx^o kilograms</u> , and that the maximum authorized mass of the trailer does not exceed the unladen mass of the tractor vehicle and the trailer is not used for the transport of persons.	

ISO/IEC 18013-1

- Zoned approach – mandatory & optional data elements
- Placement of data elements
- Other graphical characteristics
- Physical card security

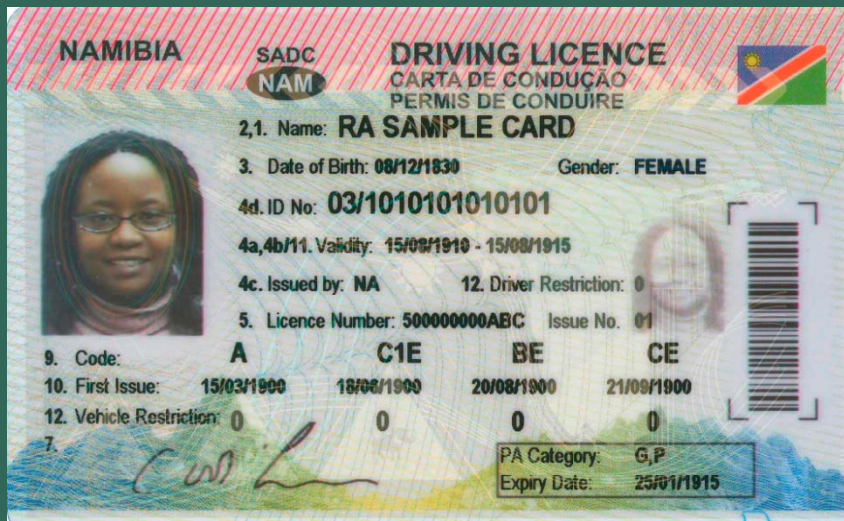
Card layout example



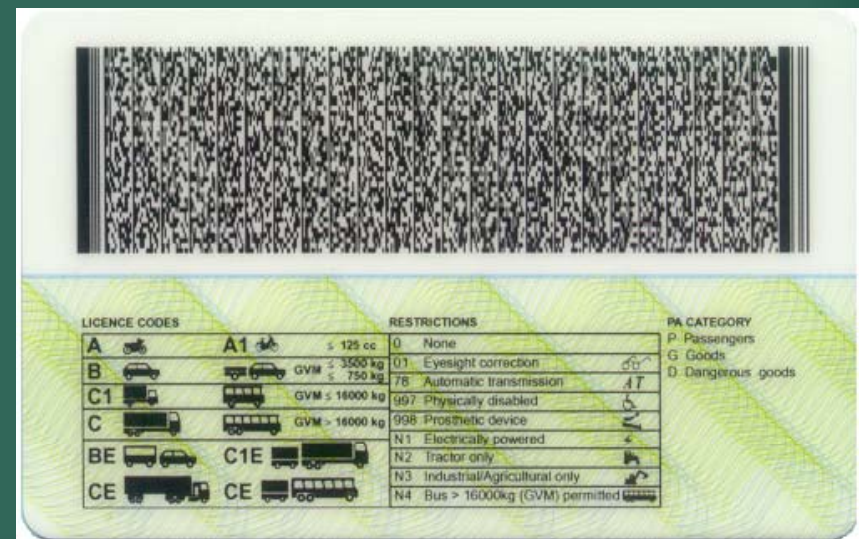
Card layout specification

ISO/IEC 18013-1

- Example of ISO/IEC 18013-1 compliant driving licence issued by Namibia



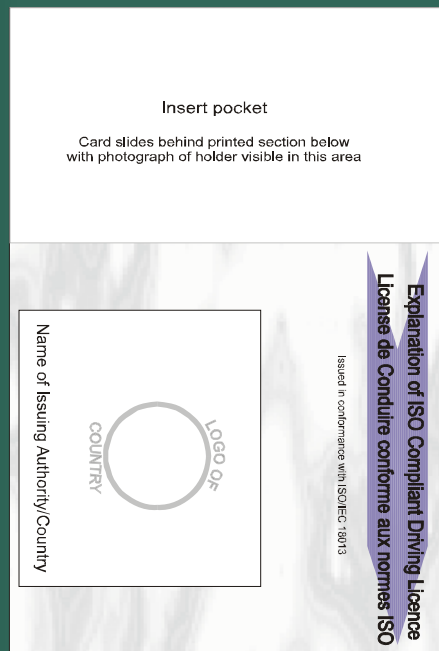
FRONT



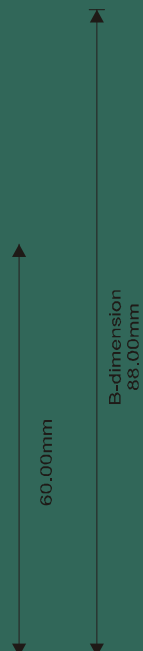
BACK

ISO/IEC 18013-1: IDL Booklet

- Human-readable content of the IDL is displayed in extended Latin Character set
- Booklet explains content in languages and character sets specified in the Convention to accompany the IDL when the holder travels internationally



A-dimension
57.00mm



Important Notice to Holder!

- (1) This booklet is not a licence, but merely translates your driving privileges into the languages agreed upon for international recognition in the United Nations (UN) Conventions on Road Traffic.
- (2) Your valid ISO compliant Driving Licence must accompany this booklet at all times.
- (3) It is understood that an ISO compliant Driving Licence shall in no way affect the obligation of the holder to conform strictly to the laws and regulations relating to residence or to the exercise of a profession which are in force in each country through which he travels.

Note Importante pour le Titulaire!

- (1) Ce livret n'est pas une licence de conduire mais traduit simplement vos droits en matière de conduite dans les langues reconnues internationalement par les Conventions des Nations Unies (NU) concernant le trafic routier.
- (2) Votre permis de conduire en cours de validité, et conforme aux normes ISO en vigueur, doit accompagner ce livret à tout moment.
- (3) Il est entendu que la possession d'un permis de conduire conforme aux normes ISO n'affecte en aucune sorte l'obligation où se trouve son porteur de se conformer entièrement, dans tous les pays où il circule, aux lois et règlements en vigueur relatifs à l'établissement d'une résidence ou à l'exercice d'une profession.

Recognition of IDL

An ISO compliant Driving Licence (IDL) card can be recognised from the following common features on the front of the card:

- The words "DRIVING LICENCE" in one of the languages English ("DRIVING LICENCE"), French ("PERMIS DE CONDUIRE") or Spanish ("PERMISO DE CONDUCCIÓN") are printed in black lettering along the top edge of the card or alternatively in the background graphic design.
- The colour of the background of the first 10 mm along the top edge of the card shall be predominantly pink.
- The photograph of the holder of the licence is only depicted on the left side of the card.

Reconnaissance du PCI








Le Permis de Conduire conforme aux normes ISO (PCI) est reconnaissable par les caractéristiques générales suivantes présentes au recto de la carte:

- La mention "PERMIS DE CONDUIRE" traduite dans une des trois langues, anglais ("DRIVING LICENCE") ou français ("PERMIS DE CONDUIRE") ou espagnol ("PERMISO DE CONDUCCIÓN"), doit être imprimée en lettres noires le long de l'arête supérieure de la carte, ou faire partie intégrante du fond de la carte.
- La couleur du fond de la carte devra être à prédominance rose dans un bandeau de 10mm de large situé sur la partie haute de la carte.
- La photographie du titulaire est reportée uniquement sur la partie gauche de la carte.

ISO/IEC 18013-1: IDL Booklet

Подробные сведения относительно Водительских прав

Транспортные средства, разрешенные кодовыми обозначениями и указанными на правах




Мотоциклы с коляской или без коляски.		A
Трехколесные и четырехколесные транспортные средства с мотором.		B1
Моторный транспорт и используемый для перевозки пассажиров и состоящий, в дополнение к водительскому креслу, из не более чем восьми пассажирских кресел, или транспорт, используемый для перевозки грузов и имеющий максимально разрешенную массу не превышающую 3 500 кг; Транспортные средства в этой категории могут быть соединены с прицепом, чья максимальная масса не превышает 750 кг.		B
Моторный транспорт, используемый для перевозки грузов и имеющий максимально разрешенную массу не превышающую 3 500 кг; Транспортные средства в этой категории могут быть соединены с прицепом, чья максимальная масса не превышает 750 кг.		C
Моторный транспорт и используемый для перевозки пассажиров и состоящий, в дополнение к водительскому креслу, из более чем восьми пассажирских кресел. Транспортные средства в этой категории могут быть соединены с прицепом, чья максимальная масса не превышает 750 кг.		D
Сочетание моторного транспортного средства состоящего из трактора в обозначенной выше категории B с прицепом чья максимально разрешенная масса превышает 750 кг и превышает массу самого трактора без груза (максимально разрешенная масса всего сочетания не должна превышать 3 500 кг), или сочетание трактора категории B с прицепом чья максимально разрешенная масса превышает 750 кг (но не превышает массу трактора без груза).		BE
Моторный транспорт категории C, или D (обозначенный выше) с прицепом, чья максимальная масса превышает 750 кг.		CE DE

«Максимально разрешенная масса» транспорта означает массу самого средства и его максимальный груз до начала движения.

Блок кодовых ссылок








1. Фамилия	4c. Ограничения, выходящие за пределы прав	9. Категория водительских прав
2. Имя	4d. (Административный номер)	10. Категория прицепа
3. Дата и место рождения	5. Номер водительских прав	11. Категория прицепа
4a. Период действия	7. Резиновый штамп	12. Информационный / ограничительный код
4b. Период действия	8. (Место проживания)*	* дополнительная информация, если известна

Блок кодовых ограничений

01. Водительу требуется коррекция зрения		78. Транспорт с автоматической коробкой передач	AT
98. Водителю требуется протез		07. Транспорт с адаптированной коробкой передач для инвалидов	

有关机动车驾驶证的项目

驾驶证上代码所表示的准予驾驶的车辆:

摩托车(有或无边车)		A
三轮以及四轮摩托车		B1
用于承载旅客, 最多 8 座位 (不包括驾驶员座位) 或者运载货物, 最大允许总质量不超过 3500 公斤 的机动车。此类型的车辆可牵引一辆轻型挂车。		B
运载货物, 最大核定质量超过 3500 公斤 的机动车。此类型的车辆可牵引一辆轻型挂车。		C
用于承载旅客, 8 座以上 (不包括驾驶员座位) 的机动车。此类型的车辆可牵引一辆轻型挂车。		D
由牵引车和一辆挂车组成的组合车, 其牵引车属以上 B 类, 挂车最大核定总质量超过 750 公斤并超出牵引车的空载质量, 但组合的最大核定总质量不超过 3500 公斤。或者由牵引车和一辆挂车组成的组合车, 其牵引车为 B 类, 挂车最大核定空载质量超过 750 公斤, 但不超出牵引车的空载质量, 组合的最大核定总质量超过 3500 公斤。		BE
如以上规定 C 或 D 类机动车, 其所牵引挂车质量超过 750 公斤。		CE DE

*“核定总质量”指机动车的质量加其最大装载质量。

驾驶证参数项目代码

1. 姓	4c. 发证单位	9. 驾驶证类别
2. 其他名字	4d. 行政管理号	10. 类别有效期始于
3. 出生日期 (出生地)	5. 证件号码	11. 类别有效期至
4a. 驾驶证有效期始于	7. 签名	12. 信息限制码
4b. 驾驶证有效期至	8. 居住地	可选, 限已有/已知

限制项目:

01. 驾驶员需要视力矫正		78. 仅限自动挡车辆	AT
98. 驾驶员需用义肢		97. 仅限为残疾人士改装的车辆	

INTERNATIONAL
STANDARD

ISO/IEC
18013-2

First edition
2008-05-15

**Information technology — Personal
identification — ISO-compliant driving
licence**

**Part 2:
Machine-readable technologies**

*Technologies de l'information — Identification des personnes — Permis
de conduire conforme à l'ISO*

Partie 2: Technologies lisibles par une machine



Reference number
ISO/IEC 18013-2:2008(E)

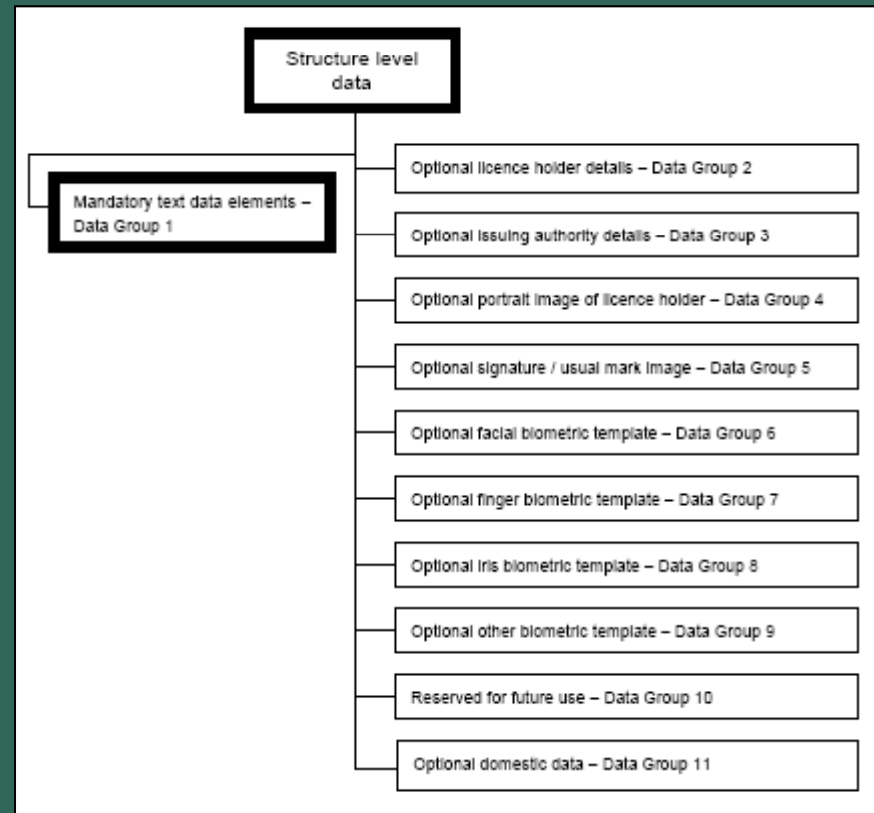
© ISO/IEC 2008

ISO/IEC 18013-2

- Human-readable and machine-readable data should not conflict
- Mandatory data elements (identified in Part 1) has to be present (may be protected by basic access protection)
- Covered technologies: Barcodes, magnetic stripe, IC with contacts, contactless IC, optical memory
- Stated functions of the machine-readable data include:
 - Identity verification
 - Evidence of residence
 - Biometric authentication
 - Age verification
- Comprehensive specification for the storage of images

ISO/IEC 18013-2

- Conceptual data structure
- Encoding rules specified separately for:
 - Barcode, magnetic stripe (Compact encoding)
 - IC, both with and without contacts (Standard encoding)
 - Optical memory



INTERNATIONAL
STANDARD

ISO/IEC
18013-3

First edition
2009-03-01

**Information technology — Personal
identification — ISO-compliant driving
licence**

**Part 3:
Access control, authentication and
integrity validation**

*Technologies de l'information — Identification des personnes — Permis
de conduire conforme à l'ISO*

Partie 3: Contrôle d'accès, authentification et validation d'intégrité



Reference number
ISO/IEC 18013-3:2009(E)

© ISO/IEC 2009

ISO/IEC 18013-3

Specifies mechanisms (for various storage technologies, as applicable) that allow for:

- Access control
 - Requires a “secret” to access data (or parts thereof)
- Document authentication
 - Verify that document was issued by apparent issuing authority
- Data integrity validation
 - Cloning
 - Exchange of machine-readable data carriers
 - Copied machine-readable data
 - Changes to human-readable data
 - Changes to machine-readable data

ISO/IEC 18013-3

Mechanisms:

- **Passive authentication:**
 - Digital signature
- **Active authentication**
 - Challenge-response protocol that uses information in a secure area of an IC to confirm that the IC and the other machine-readable data were issued together
- **Non-match alert**
 - Alerts if human-readable data and machine-readable data differ
- **Basic access protection**
 - Allows access to machine-readable data only if visual access to IDL can be confirmed
 - Protects (encrypts) communication between card and reader
- **Extended access protection**
 - IC authentication, strong secure messaging, and conditional authenticated access to data groups

Non-match alert using existing field

UTA **DRIVING LICENCE** REPUBLIC OF UTOPIA

FLAG

1. DETORE-SPECIMENIA
2. MARY MARILYN
3. 07.06.1952 UTOPIA
- 4a. 15.02.2002 4b. 25.02.2012
- 4c. UTOPIA SAMPLE AGENCY
- 4d. 97BA3-9123LK 45678
7. *Mary Detore-Specimenia*
5. 070652-701F 9. A BE C D1E D

Non-match alert using a dedicated field

EDH2TUL		PDE CATEGORIES P Passengers G Goods D Dangerous goods
VXCBDGB		
Z4G18HF		

A	A1	≤ 125 cc
B		GVM ≤ 3500 Kg GVM ≤ 750 Kg
C	C1	GVM > 3500 Kg
D	D1	GVM > 3500 Kg
BE	CE	
CE	DE	

DRIVER RESTRICTIONS
Corrective lenses
Prosthesis

VEHICLE RESTRICTIONS
Automatic transmission *AT*
Electrically powered
Physically disabled
Bus > 16000 kg (GVM) permitted
Tractor only
Industrial/Agricultural only

Basic access protection using a barcode

1Qrt5%bMM*\$3j84mzDp8R

PDE CATEGORIES
P Passengers
G Goods
D Dangerous goods

A	A1	≤ 125 cc
B		GVM ≤ 3500 Kg GVM ≤ 750 Kg
C	C1	GVM > 3500 Kg
D	D1	GVM > 3500 Kg
BE	CE	
CE	DE	

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SUGGESTION/PROPOSAL

Format of the DDP and model IDP

- Committee on driving licences assisting EC adopted & recommended ISO/IEC 18013 as requirement for microchip on driving licence card
- Booklet specified in Part 1 can fulfil the role of the translation of the DDP in terms of the 2006 Amendment of 1968 Convention
- Integrity and authentication specifications in Part 1, 2 and 3 will render the DDP more secure against forgers and allow inter operability regarding the machine readable content

SUGGESTION/PROPOSAL

Format of the DDP and model IDP (continue)

- Opportunity to utilise technical work performed by ISO/IEC in publication of ISO/IEC 18013
- Amendment of Annex 6 and 7 of the Convention is suggested by reference to ISO/IEC 18013 regarding:

- Format of DDP (Annex 6)
- Model of IDP (Annex 7)

without any changes to regulatory aspects of

- Categories of vehicles specified in 2006 amendment of Convention
- Data content to be displayed visually and stored electronically

SUGGESTION/PROPOSAL

Categories of vehicles

- IDP only recognised if accompanied by DDP according to 2006 amendment of Convention
- Confusion regarding driving licence privileges conveyed by same designations and symbols used in EU 3rd Directive and in Convention for different definitions
- Resolve current inconsistencies in definitions
- Formal arrangements to co-ordinate future changes for convergence in definition of licence codes