INTERNATIONAL STANDARD ISO 14906:2011
TECHNICAL CORRIGENDUM 1

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Electronic fee collection — Application interface definition for dedicated short-range communication —

TECHNICAL CORRIGENDUM 1

Perception du télépéage — Définition de l'interface d'application relative aux communications dédiées à courte portée —

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 14906:2011 was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*, in collaboration with Technical Committee CEN/TC 278, *Road transport and traffic telematics*.

Page 45, Table 39

In the "Information remarks" column, replace

'ISO 1176 Code ISO-M18 maximum design mass of vehicle combination'

with

'ISO 1176 Code ISO-M19 maximum authorized mass of vehicle combination'.

Page 46, Table 39

In the "VehicleSpecificCharacteristics" row and "Definition" column, replace

'Further vehicle characteristics. Each enumerated value has a specific meaning assigned. The meaning of some values are defined in this International Standard, others are reserved for future needs'

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with

'Further vehicle characteristics. Each enumerated value has a specific meaning assigned. The meaning of some values are reserved for future CEN / ISO use (i.e. 1-50), whereas as others are reserved for private use (i.e. 51-255).'

Page 46, Table 39

In the "VehicleSpecificCharacteristics" row, delete the text in the "Informative remarks" column (i.e. delete 'Assignment of meaning to the unassigned enumerated values is subject to registration according to the registration procedure specified in EN 12834/ISO 15628.').

Page 47 , Table 39

Replace the ExhaustEmissionValues and DieselEmissionValues

EFC Attribute	*Data element*	*Definition*	*Type*	*Length in octet*	*Value range*	*Informative remarks*
ExhaustEmissionValues	EmissionCO	Exhaust emission of CO, according to vehicle registration documents, in 10^{-3} g/km or g/kWh.	INTEGER (0…32766)			If the emissions are measured directly on the engine test bed the value is declared in g/kWh
	EmissionHC	Exhaust emission of HC, according to vehicle registration documents, in 10^{-3} g/km or g/kWh.	INT 2	2	0...65535	If the emissions are measured directly on the engine test bed the value is declared in g/kWh
	EmissionNOX	Exhaust emission of NOX, according to vehicle registration documents, in 10^{-3} g/km or g/kWh.	INT 2	2	0...65535	If the emissions are measured directly on the engine test bed the value is declared in g/kWh
	EmissionHCNOX	Exhaust emission of HCNOX, according to vehicle registration documents, in 10^{-3} g/km or g/kWh.	INT 2	2	0...65535	If the emissions are measured directly on the engine test bed the value is declared in g/kWh
DieselEmissionValues	Particulate	Particulates for diesel, according to vehicle registration documents, in 10^{-3} g/km or g/kWh.	INTEGER (0…32766)	2		If the emissions are measured directly on the engine test bed the value is declared in g/kWh
	AbsorptionCoeff	Corrected absorption coefficient for diesel, according to vehicle registration documents, in 10^{-3} m^{-1}.	INT 2	2	0...65535	

with

EFC Attribute	*Data element*	*Definition*	*Type*	*Length in octet*	*Value range*	*Informative remarks*
Exhaust EmissionValues	UnitType	The unit type of the exhaut emissions of CO, HC, NOX and HCNOX, in mg/km or mg/kWh.	UnitType			If the emissions are measured directly on the engine test bed the value is declared in mg/kWh
	EmissionCO	Exhaust emission of CO, according to vehicle registration documents, expressed in the unit conveyed by UnitType.	INTEGER (0…32767)			
	EmissionHC	Exhaust emission of HC, according to vehicle registration documents, expressed in the unit conveyed by UnitType.	INT 2	2	0...65535	
	EmissionNOX	Exhaust emission of NOX, according to vehicle registration documents, expressed in the unit conveyed by UnitType.	INT 2	2	0...65535	
	EmissionHCNOX	Exhaust emission of HCNOX, according to vehicle registration documents expressed in the unit conveyed by UnitType.	INT 2	2	0...65535	
DieselEmission Values	Particulate	The unit type of the exhaust diesel emissions particulates, in mg/km or mg/kWh. The emission of particulates for diesel, according to vehicle registration documents, expressed in the unit conveyed by UnitType.	Particulate			If the emissions are measured directly on the engine test bed the value is declared in mg/kWh.
	AbsorptionCoeff	Corrected absorption coefficient for diesel, according to vehicle registration documents, in 10^{-3} m^{-1}.	INT 2	2	0...65535	

Page 51, Annex A

Replace

'::= BEGIN
IMPORTS CountryCode, CS5, IssuerIdentifier'

with

'::= BEGIN
EXPORTS ALL;
IMPORTS CountryCode, CS5, IssuerIdentifier'.

Page 54, Annex A

Replace

'-- (51..255) are reserved for future CEN use
} (0..255) -- vehicle shape x as defined in prENV/278/8/1/5 for silhouette'

with

'-- (1..50) are reserved for future CEN ISO use
-- (51..255) are reserved for private use
} (0..255) '.

Page 54, Annex A

Replace

```
'DieselEmissionValues::= SEQUENCE {
    particulate SEQUENCE{
          unitType ENUMERATED {
                                    g-km (0),
                                    g-kWh (1)
          },
          value INTEGER (0..32766)
          },
          absorptionCoeff Int2
}'
```

with

```
'DieselEmissionValues::= SEQUENCE {
    particulate SEQUENCE {
          unitType                  UnitType,
          value                     INTEGER (0..32767)
    }
    absorptionCoeff                 Int2
}'
```

Pages 54-55, Annex A

Replace

```
'EnvironmentalCharacteristics::= SEQUENCE {
    euroValue ENUMERATED {
          noEntry                   (0),
          euro-1                    (1),
          euro-2                    (2),
          euro-3                    (3),
          euro-4                    (4),
          euro-5                    (5),
          euro-6                    (6),
          reservedForUse1           (7)
          }, -- 4 bits, EURO-Clases as defined in EC directive 88/77/EEC, annex 1
          -- and in 91/542/EEC, 96/1/EC, 1999/96/EC, 2001/27/EC
    copValue ENUMERATED {
          noEntry                   (0),
          co2class1                 (1), -- below 101 g/km
          co2class2                 (2), -- 101 to 120 g/km
          co2class3                 (3), -- 121 to 140 g/km
          co2class4                 (4), -- 141 to 160 g/km
          co2class5                 (5), -- 161 to 200 g/km
          co2class6                 (6), -- 201 to 250 g/km
          co2class7                 (7) -- above 250 g/km
          } -- 4 bits, reserved for carbon dioxide pollution values as defined in
          -- EC directive 2003/127/EC
    }
```

with

```
'EnvironmentalCharacteristics::= SEQUENCE {
    euroValue                       EuroValue,
    copValue                        CopValue
    }

EuroValue::= ENUMERATED {
          noEntry                   (0),
          euro-1                    (1),
          euro-2                    (2),
          euro-3                    (3),
          euro-4                    (4),
          euro-5                    (5),
          euro-6                    (6),
          reservedForUse1           (7),
          reservedForUse2           (8),
          reservedForUse3           (9),
          reservedForUse4           (10),
          reservedForUse5           (11),
          reservedForUse6           (12),
          reservedForUse7           (13),
          reservedForUse8           (14),
          reservedForUse9           (15)
          }, -- 4 bits, EURO-Clases as defined in EC directive 88/77/EEC, annex 1
          -- and in 91/542/EEC, 96/1/EC, 1999/96/EC, 2001/27/EC

CopValue::= ENUMERATED {
          noEntry                   (0),
          co2class1                 (1),  -- below 101 g/km
          co2class2                 (2),  -- 101 to 120 g/km
          co2class3                 (3),  -- 121 to 140 g/km
          co2class4                 (4),  -- 141 to 160 g/km
          co2class5                 (5),  -- 161 to 200 g/km
          co2class6                 (6),  -- 201 to 250 g/km
          co2class7                 (7),  -- above 250 g/km
          reservedforUse            (8)   -- reserved for future CEN and ISO use
          } -- 4 bits, reserved for carbon dioxide pollution values as defined in
          -- EC directive 2003/127/EC'
```

Page 55, Annex A

Replace

```
'ExhaustEmissionValues ::= SEQUENCE {
         unitType ENUMERATED {
                                  g-km (0),
                                  g-kWh (1)
                                  },
         emissionCO               INTEGER (0..32766),
         emissionHC               Int2,
         emissionNOX              Int2,
         emissionHCNOX            Int2
}
```

with

```
'ExhaustEmissionValues ::= SEQUENCE {
         unitType                 UnitType,
         emissionCO               INTEGER (0.. 32767),
         emissionHC               Int2,
         emissionNOX              Int2,
         emissionHCNOX            Int2
}'.
```

Page 59, Annex A

Replace

```
    'paymentAuthenticatorNotAccepted                (21)'
```

with

```
    'paymentAuthenticatorNotAccepted                (21),'
```

i.e. add ',' at the end of the line.

Page 59, Annex A

Replace

```
    'PaymentMeansNotCorrect                         (23),'
```

with

```
    'paymentMeansNotCorrect                         (23),'
```

i.e. start with a small character.

Page 59, Annex A

Replace

```
    'PaymentMeansRestrictionsNotFulfilled     (25),
    -- (25-255) are reserved for future CEN use'
```

with

```
    'paymentMeansRestrictionsNotFulfilled     (25)'
    -- (26-255) are reserved for future CEN/ISO use'
```

i.e. start with a small character, delete ',' at the end of the first line and correct the value range reserved for future CEN/ISO use.

Page 60, between, TrailerLicencePlateNumber and ValidityOfContract

Add

```
'UnitType ENUMERATED {
                          mg-km (0),
                          mg-kWh (1)
}'.
```

Page 63, Annex A

Replace

```
    'octetstring [2] OCTET STRING (SIZE (0..127), ...)'
```

with

```
    'octetstring [2] OCTET STRING (SIZE (0..127,...))'.
```

Page 111

Replace

```
'Mapping table between EFC Vehicledata attribute and European registration certificate'
```

with

```
'Mapping table between EFC Vehicle data attribute and European registration certificate'
```

Page 112, Annex F

Replace, for V.1-V.5

```
'(in g/km or g/kWh)'
```

with

```
'(in mg/km or mg/kWh)'
```