



INTERNATIONAL STANDARD ISO 14906:2011  
TECHNICAL CORRIGENDUM 1

Published 2013-04-01

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'

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.').

STANDARDSISO.COM : Click to view the full PDF of ISO 14906:2011/Cor 1:2013

Page 47, Table 39

Replace the ExhaustEmissionValues and DieselEmissionValues

| EFC Attribute          | Data element    | Definition                                                                                                                      | Type                | Length in octet | Value range | Informative remarks                                                                          |
|------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------|-------------|----------------------------------------------------------------------------------------------|
| Exhaust EmissionValues | EmissionCO      | Exhaust emission of CO, according to vehicle registration documents, in 10 <sup>-3</sup> 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 <sup>-3</sup> 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 <sup>-3</sup> 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 <sup>-3</sup> 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 |
| DieselEmission Values  | Particulate     | Particulates for diesel, according to vehicle registration documents, in 10 <sup>-3</sup> 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 <sup>-3</sup> m <sup>-1</sup> . | INT 2               | 2               | 0...65535   |                                                                                              |

with

| EFC Attribute                  | Data element    | Definition                                                                                                                                                                                                           | Type                | Length in octet | Value range | Informative remarks                                                                            |
|--------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------|-------------|------------------------------------------------------------------------------------------------|
| <b>Exhaust Emission Values</b> | UnitType        | The unit type of the exhaust emissions of CO, HC, NOX and HCN <sub>OX</sub> , 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 HCN <sub>OX</sub> , according to vehicle registration documents expressed in the unit conveyed by UnitType.                                                                                      | INT 2               | 2               | 0...65535   |                                                                                                |
| <b>Diesel Emission Values</b>  | Particulate     | The unit type of the exhaust diesel emissions particulates, in mg/km or mg/kWh.<br>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 <sup>-3</sup> m <sup>-1</sup> .                                                                                      | 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-Classes 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-Classes 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'
```