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AMENDMENT 1
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**Intelligent transport systems —
Automatic vehicle and equipment
identification — Numbering and data
structures**

AMENDMENT 1

*Systèmes intelligents de transport — Identification automatique
des véhicules et des équipements — Numérotation et structures
des données*

AMENDEMENT 1

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This document was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*.

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Intelligent transport systems — Automatic vehicle and equipment identification — Numbering and data structures

AMENDMENT 1

Introduction

Delete last paragraph.

Page 4, 5.2

Add the en dash to the list items as follows:

- AEI Manager;
- AEI Reader;
- Message Display;
- transport object/TAG.

Page 6, Clause 7

Delete last paragraph "Examples on encoding ...".

Page 6, 7.1.2

Replace definition of AccessControlSyatus by

```
AccessControlStatus ::= INTEGER {  
    accessOk           (0),  
    accessDenied      (1),  
    accessPending     (2)  
} (0..255)
```

Page 6, 7.2.2

Replace definition of AEIMessageType by

```
AEIMessageType ::= SEQUENCE {  
    timereal          TimeReal,  
    --Local time reference (precision in seconds)  
    readerLocation   ReaderLocation,  
    terminalMonitoringType TerminalMonitoringType,  
    transportObjectMessageType TransportObjectMessageType  
    --Transport Means, Package, Goods Item  
}
```

Page 7, 7.3.2

Replace definition of CS9 by

```
CS9 ::= SEQUENCE {  
    cs9      SwapBodyStructure,  
    fill     BIT STRING (SIZE(6)) -- '000000' for octet alignment of CS9.  
} -- 12 octets
```

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Replace definition of MultipleLoadIdentification by

```

MultipleLoadIdentification ::= SEQUENCE{
  identifierCode                               INTEGER {
    noLoadIdentifier                           (0),
    transportMeansIdentification              (1), --ISO14816
    intermodalGoodsTransportationIdentification (2), --ISO17262
    freightContainerIdentification            (3), --ISO17363
    returnableTransportItemsIdentification    (4), --ISO17364
    transportUnitsIdentification              (5), --ISO17365
    productPackagingIdentification            (6), --ISO17366
    goodsItemsIdentification                  (7), --ISO17367
    electronicSealsIdentification             (15) --ISO18185
  } (0 .. 999),
  noLoadIdentifier                             UTF8String OPTIONAL,
  transportMeansIdentification                 UTF8String OPTIONAL,
  -- Automatic vehicle and equipment identification -
  -- Numbering and data structure,
  -- containing the corresponding identifier to be defined in ISO 14816,
  intermodalGoodsTransportIdentification      UTF8String OPTIONAL,
  -- Automatic vehicle and equipment identification-
  -- Numbering and data structures,
  -- containing the corresponding identifier to be defined in ISO17262
  freightContainerIdentification              UTF8String OPTIONAL,
  -- Supply chain applications of RFID,
  -- containing the corresponding identifier to be defined in ISO17363
  returnableTransportItemsIdentification     UTF8String OPTIONAL,
  -- Supply chain applications of RFID,
  -- containing the corresponding identifier to be defined in ISO17364
  transportUnitsIdentification               UTF8String OPTIONAL,
  -- Supply chain applications of RFID,
  -- containing the corresponding identifier to be defined in ISO17365
  productPckagingIdentification              UTF8String OPTIONAL,
  -- Supply chain applications of RFID,
  -- containing the corresponding identifier to be defined in ISO17366
  goodsItemsIdentification                   UTF8String OPTIONAL,
  -- Supply chain applications of RFID,
  -- containing the corresponding identifier to be defined in ISO17367
  electronicSealsIdentification              UTF8String OPTIONAL
  -- Freight containers
  -- Part 4: Data protection,
  -- containing the corresponding identifier to be defined in ISO18185
}

```

Page 9

Replace the whole content of 7.5 by the following NOTE:

NOTE It is intended to reintroduce CS11 in the next version of this International Standard.

Page 34, 7.6.2

Replace the definition of DisplayMessageType by

```
DisplayMessageType ::= SEQUENCE {  
    fill BIT STRING (SIZE(6)), -- all set to '0'b  
    accessControlStatus AccessControlStatus,  
    transportObjectMessageType TransportObjectMessageType OPTIONAL,  
    msgInfo MsgInfo OPTIONAL  
}
```

Page 35, 7.10.2

Replace definition of ReaderLocation by

```
ReaderLocation ::= SEQUENCE {  
    fill BIT STRING (SIZE(4)), -- all set to '0'b  
    readerIdentity CS2 OPTIONAL, -- Global Manufacturer  
    -- Identifier from ENV ISO 14816:2005  
    localIdentity INTEGER(1..65535) OPTIONAL,  
    -- Locally determined reader identity  
    unlocode UNLocode OPTIONAL,  
    position Position OPTIONAL  
}
```

Page 35, 7.11.2

Replace definition of TerminalMonitoringType by

```

TerminalMonitoringType ::= BIT STRING {
    entry                (0),
    exit                 (1),
    loading              (2),
    unloading            (3),
    stacking             (4),
    unstacking          (5),
    stuffing             (6),
    stripping            (7),
    registration        (8) --automatic reading of transport objects
} (SIZE(16))

```

Page 36, 7.12.2

Replace definition of TransportComponentStatus by

```

TransportComponentStatus ::= INTEGER {
    oK                   (0),
    malFunction          (1),
    batteryLow           (2)
} (0..255)

```

Page 36, 7.13.2

Replace definition of TransportObjectIdentifier by

```
TransportObjectIdentifier ::= OCTET STRING (CONTAINING TrObID)
```

```
TrObID ::= SEQUENCE{
  toi CHOICE {
    c1 CS1, --imported from ISO14816, AVIAEI Unambiguous identifier
    c2 CS2, --ditto
    c4 CS4, --ditto
    c5 CS5, --ditto
    c7 CS7, --ditto
    c8 CS8, --ditto
    c9 CS9, --Swap Body Structure
    c10 CS10 --freight conveyance identifier
  }
  -- c11 CS11
  --private defined data can be added here
}
```

Page 36, 7.14.2

Replace definition of TransportObjectType by

```
TransportObjectType ::= INTEGER {
  goodsItem (0),
  package (1),
  transportMeans (2)
} (0..255)
```

Page 37, 7.15.1

Replace definition of TransportObjectMessageType by

```
TransportObjectMessageType ::= SEQUENCE{
  fill BIT STRING (SIZE(6)), -- all set to '0'b
  transportObjectIdentifier TransportObjectIdentifier,
  -- Depending on the Transport Object Type
  transportObjectType TransportObjectType OPTIONAL,
  -- Transport Means, Package, Goods Item
  transportComponentStatus TransportComponentStatus OPTIONAL
}
```

Page 40, 7.15.1

Convert the line ASN.1 type into a headline:

7.15.2 ASN.1 type

Page 38, Annex A

Replace the whole Annex A by the following one:

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Annex A (normative)

ASN.1 Module for intermodal goods transport numbering and data structures

A.1 Introduction

This annex contains the following ASN.1 module:

- AVIAEIIntermodalNumberingAndDataStructures {iso(1) standard(0) iso17262(17262) version2 (2)} in A.2.

A.2 Module AVIAEIIntermodalNumberingAndDataStructures

In case the ASN.1 specification of AVIAEIIntermodalNumberingAndDataStructures given in this Annex is not compliant with illustrations or specifications provided elsewhere in this International standard, the specifications given in this Annex shall prevail.

The ASN.1 module AVIAEIIntermodalNumberingAndDataStructures contained in this Annex will be published on <http://standards.iso.org/iso/17262>.

In all definitions

```
fill BIT STRING (SIZE(x))
```

each bit of the BIT STRING shall be set to the value '0'b.

```
AVIAEIIntermodalNumberingAndDataStructures {iso(1) standard(0) iso17262(17262) version2 (2)}
```

```
DEFINITIONS AUTOMATIC TAGS ::= BEGIN
```

```
IMPORTS
```

```
CS1, CS2, CS3, CS4, CS5, CS7, CS8 FROM AVIAEIIntermodalNumberingAndDataStructures {iso(1) standard(0) iso14816(14816) asn1(1) version1(1)}
```

```
Time FROM EfcDsrcGeneric {iso(1) standard(0) iso14906(14906) generic(1) version5(5)}
```

```
;
```

```
-- bug fix (previous version)
```

```
TimeReal ::= Time
```

```
-- end of bug fix
```

```
AccessControlStatus ::= INTEGER {
    accessOk (0),
    accessDenied (1),
    accessPending (2)
} (0..255)
```

```
AEIMessageType ::= SEQUENCE {
    timerealTimeReal,
    --Local time reference (precision in seconds)
    readerLocation ReaderLocation,
    terminalMonitoringType TerminalMonitoringType,
    transportObjectMessageType TransportObjectMessageType,
    --Transport Means, Package, Goods Item
```