

First edition
2012-09-01

AMENDMENT 1
2019-02

**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



Reference number
ISO 17262:2012/Amd.1:2019(E)

© ISO 2019



COPYRIGHT PROTECTED DOCUMENT

© ISO 2019

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Fax: +41 22 749 09 47
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see www.iso.org/iso/foreword.html.

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

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

STANDARDSISO.COM : Click to view the full PDF of ISO 17262:2012/Amd 1:2019

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
```

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
        },
    --16-999 Reserved for future use (0 .. 999)
    } (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:

STANDARDSISO.COM : Click to view the full PDF of ISO 17262:2012/Amd 1:2019

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, C57, 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
```