This is a free page sample. Access the full version online.

NSAI Standards

Irish Standard
I.S. EN ISO 17263:2012&AC:2013

Intelligent transport systems - Automatic vehicle and equipment identification - System parameters (ISO 17263:2012)

© CEN 2013 No copying without NSAI permission except as permitted by copyright law.

This is a free page sample. Access the full version online.

I.S. EN ISO 17263:2012&AC:2013

Incorporating amendments/corrigenda/National Annexes issued since publication:

EN ISO 17263:2012/AC:2013

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation — recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

This document is based on:	*Published:*
EN ISO 17263:2012	2012-08-01

This document was published under the authority of the NSAI and comes into effect on:	ICS number:
2013-12-28	03.220.20 35.240.60 NOTE: If blank see CEN/CENELEC cover page

NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 17263:2012/AC

December 2013
Décembre 2013
Dezember 2013

ICS 35.240.60; 03.220.20

English version
Version Française
Deutsche Fassung

Intelligent transport systems - Automatic vehicle and equipment identification - System parameters - Technical Corrigendum 1 (ISO 17263:2012/Cor 1:2013)

Systèmes intelligents de transport - Identification automatique des véhicules et des équipements - Paramètres des systèmes - Rectificatif technique 1 (ISO 17263:2012/Cor 1:2013)

Intelligente Transportsysteme - Automatische Fahrzeug- und Ausstattungsidentifizierung - Systemparameter (ISO 17263:2012/Cor 1:2013)

This corrigendum becomes effective on 18 December 2013 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 18 décembre 2013 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 18. Dezember 2013 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

© 2013 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.
Tous droits d'exploitation sous quelque forme et de quelque manière que ce soit réservés dans le monde entier aux membres nationaux du CEN.
Alle Rechte der Verwertung, gleich in welcher Form und in welchem Verfahren, sind weltweit den nationalen Mitgliedern von CEN vorbehalten.

Ref. No.:EN ISO 17263:2012/AC:2013 D/E/F

This is a free page sample. Access the full version online.

Contents

Page

Foreword.....3

This is a free page sample. Access the full version online.

Foreword

This document (EN ISO 17263:2012/AC:2013) has been prepared by Technical Committee ISO/TC 204 “Intelligent transport systems” in collaboration with Technical Committee CEN/TC 278 “Intelligent transport systems” the secretariat of which is held by NEN.

Endorsement notice

The text of ISO 17263:2012/Cor 1:2013 has been approved by CEN as EN ISO 17263:2012/AC:2013 without any modification.

This is a free page sample. Access the full version online.

This page is intentionally left blank

This is a free page sample. Access the full version online.

INTERNATIONAL STANDARD ISO 17263:2012
TECHNICAL CORRIGENDUM 1

Published 2013-12-15

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

Intelligent transport systems — Automatic vehicle and equipment identification — System parameters

TECHNICAL CORRIGENDUM 1

Systèmes intelligents de transport — Identification automatique des véhicules et des équipements — Paramètres des systèmes

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 17263:2012 was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*.

Title

Change the English title of the document to the following:

Intelligent transport systems — Automatic vehicle and equipment identification — Intermodal goods transport system parameters

Change the French title of the document to the following:

Systèmes intelligents de transport — Identification automatique des véhicules et des équipements — Paramètres des systèmes de transport de marchandises intermodal

ICS 03.220.20; 35.240.60 **Ref. No. ISO 17263:2012/Cor.1:2013(E)**

© ISO 2013 – All rights reserved

Published in Switzerland

This is a free page sample. Access the full version online.

This page is intentionally left blank

This is a free page sample. Access the full version online.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 17263

August 2012

ICS 35.240.60; 03.220.20

Supersedes CEN ISO/TS 17263:2003

English Version

Intelligent transport systems - Automatic vehicle and equipment identification - System parameters (ISO 17263:2012)

Systèmes intelligents de transport - Identification automatique des véhicules et des équipements - Paramètres des systèmes (ISO 17263:2012)

Intelligente Transportsysteme - Automatische Fahrzeug- und Ausstattungsidentifizierung - Intermodaler Gütertransport - Systemparameter (ISO 17263:2012)

This European Standard was approved by CEN on 31 July 2012.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

© 2012 CEN All rights of exploitation in any form and by any means reserved worldwide for CEN national Members.

Ref. No. EN ISO 17263:2012: E

This is a free page sample. Access the full version online.

Contents

Page

Foreword.....3

This is a free page sample. Access the full version online.

Foreword

This document (EN ISO 17263:2012) has been prepared by Technical Committee CEN/TC 278 “Road transport and traffic telematics”, the secretariat of which is held by NEN, in collaboration with Technical Committee ISO/TC 204 "Intelligent transport systems".

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2013, and conflicting national standards shall be withdrawn at the latest by February 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes CEN ISO/TS 17263:2003.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

This is a free page sample. Access the full version online.

This page is intentionally left blank

This is a free page sample. Access the full version online.

INTERNATIONAL STANDARD

ISO 17263

First edition
2012-08-01

Intelligent transport systems — Automatic vehicle and equipment identification — System parameters

Systèmes intelligents de transport — Identification automatique des véhicules et des équipements — Paramètres des systèmes

Reference number
ISO 17263:2012(E)

© ISO 2012

This is a free page sample. Access the full version online.

COPYRIGHT PROTECTED DOCUMENT

© ISO 2012

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland

This is a free page sample. Access the full version online.

Contents

Page

Foreword iv

Introduction v

1 Scope 1
1.1 General 1
1.2 Aim 1

2 Normative references 1

3 Terms and definitions 2

4 Symbols and abbreviated terms 3

5 System architecture and specification 3
5.1 Generic specification 3
5.2 Architecture and data structure of elements 4

6 Requirements and parameters 4
6.1 Basic rules 4
6.2 System operational parameters and requirements 5
6.3 Specific parameters and performance criteria for the reader 6
6.4 Specific operational parameters and performance criteria for tag 8

Bibliography 11

© ISO 2012 – All rights reserved

This is a free page sample. Access the full version online.

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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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.

ISO 17263 was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 278, *Road transport and traffic telematics*, in collaboration with Technical Committee ISO/TC 204, *Intelligent transport systems,*in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

ISO 17263 cancels and replaces ISO/TS 17263:2003, which has been technically revised.

© ISO 2012 – All rights reserved

This is a free page sample. Access the full version online.

Introduction

This International Standard specifies parameters for a system for the automatic identification of equipment, vehicles and items (AEI) used in intermodal transport chains. This International Standard is designed to enable users and suppliers of AEI systems to specify or use a system or components of a system that will enable interoperability. Such systems are designed to read and transfer the identity and some further important data of equipment, vehicles and items used in intermodal transport to other partners in each possible transport chain to minimize the expenditure and to automate the process of transport observation and control. This standard is a part of a family of standards for that purpose.

AEI systems are necessary as a basic tool for RTTT/TICS applications in intermodal transport operation. These information systems need real-time highly reliable data about the identity, status, time, location, etc. of the equipment, vehicles or items during the transport operation. The characteristics of an intermodal transport chain is that pieces of equipment or items will be loaded or unloaded more than once from other pieces of equipment or vehicles. AEI systems in such applications are also able to provide the identity of both units at the loading and unloading process. The purpose is to capture the event so that the information system reflects the real world.

This International Standard is specifically aimed at DSRC-type air interfaces. The requirement and test methods may not apply for Intermodal AEI systems using long-range communications such as Cellular Networks or Satellite, or vicinity communication such as inductively coupled antennas. The interoperability across the air interface (reference point Delta) is outside the scope of this International Standard. Please see ISO 17264.

Any system used to read identity and related data has to be based on a standardized system to allocate an unambiguous identity to each item, vehicle, load unit or equipment as defined in ISO 17262.

© ISO 2012 – All rights reserved

This is a free page sample. Access the full version online.

This is a free page sample. Access the full version online.

Intelligent transport systems — Automatic vehicle and equipment identification — System parameters

1 Scope

1.1 General

This International Standard establishes an AEI system based on radio frequency technologies. This system is intended for general application in RTTT/TICS. It allows the transfer of the identification codes and further information about equipment and vehicles used in intermodal transport into such RTTT/TICS and information systems related to intermodal transport processes. Within the intermodal context of the RTTT/TICS Sector, AEI systems have the specific objective of achieving an unambiguous identification of an ITU or related equipment or vehicle or item used in intermodal transport, and to make that identification automatically. Vehicles will be considered and handled under Intermodal aspects as “Intermodal Equipment”. Therefore, a differentiation between AEI and AVI systems for the purpose of this standard is not required.

1.2 Aim

The aim of this International Standard is to define, describe and specify the System Parameters related to an intermodal AEI system to provide an enabling Standard, which, while allowing the system specifier to determine the performance levels and operating conditions, provides a framework for interoperability. Therefore this International Standard specifies

a) parameters and requirements of the identification system itself,

b) performance criteria necessary to ensure consistent and reliable operation of AEI systems within international transport processing,

c) requirements of the performance and the position of the electronic devices (tag) when installed on intermodal equipment, and

d) requirements for the installation of readers, and performance data related to these components.

These parameters of an AEI system shall be identical, compatible or interoperable world-wide in respect of systems complying to this Standard. Yet it is recognized that, at the implementation level, there may be requirements for regional or operational differences in the performance levels achieved against these parameters.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 10374, *Freight containers — Automatic identification*

ISO 14815, *Road transport and traffic telematics — Automatic Vehicle and Equipment Identification – System specification*

ISO 17261, *Intelligent transport systems — Automatic vehicle and equipment identification — Intermodal goods transport architecture and terminology*

ISO 17262, *Intelligent transport systems — Automatic vehicle and equipment identification — Numbering and data structures*

ISO 17264, *Intelligent transport systems — Automatic vehicle and equipment identification — Interfaces*

© ISO 2012 – All rights reserved

SAI GLOBAL

This is a free preview. Purchase the entire publication at the link below:

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation