



**NSAI**  
Standards

Irish Standard  
I.S. EN ISO 24534-3:2016

Intelligent transport systems - Automatic  
vehicle and equipment identification -  
Electronic registration identification (ERI) for  
vehicles - Part 3: Vehicle data (ISO 24534-  
3:2016)

**I.S. EN ISO 24534-3:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

I.S. EN ISO 24534-3:2016 is the adopted Irish version of the European Document EN ISO 24534-3:2016, Intelligent transport systems - Automatic vehicle and equipment identification - Electronic registration identification (ERI) for vehicles - Part 3: Vehicle data (ISO 24534-3:2016)

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*In line with international standards practice the decimal point is shown as a comma (,) throughout this document.*

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**EUROPEAN STANDARD**

**EN ISO 24534-3**

**NORME EUROPÉENNE**

**EUROPÄISCHE NORM**

April 2016

ICS 03.220.20; 35.240.60

Supersedes EN ISO 24534-3:2010

English Version

**Intelligent transport systems - Automatic vehicle and  
equipment identification - Electronic registration  
identification (ERI) for vehicles - Part 3: Vehicle data (ISO  
24534-3:2016)**

Systèmes de transport intelligents - Identification  
automatique des véhicules et des équipements -  
Identification d'enregistrement électronique (ERI)  
pour les véhicules - Partie 3: Données du véhicule (ISO  
24534-3:2016)

Automatische Identifizierung von Fahrzeugen und  
Ausrüstungen - Elektronische Identifizierung für die  
Registrierung (ERI) von Fahrzeugen - Teil 3:  
Fahrzeugdaten (ISO 24534-3:2016)

This European Standard was approved by CEN on 4 March 2016.

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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.



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COMITÉ EUROPÉEN DE NORMALISATION  
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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

**EN ISO 24534-3:2016 (E)**

<b>Contents</b>	<b>Page</b>
<b>European foreword.....</b>	<b>3</b>

## **European foreword**

This document (EN ISO 24534-3:2016) 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.

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 October 2016, and conflicting national standards shall be withdrawn at the latest by October 2016.

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 EN ISO 24534-3:2010.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

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.

## **Endorsement notice**

The text of ISO 24534-3:2016 has been approved by CEN as EN ISO 24534-3:2016 without any modification.

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# INTERNATIONAL STANDARD

**ISO  
24534-3**

Second edition  
2016-04-01

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## **Intelligent transport systems — Automatic vehicle and equipment identification — Electronic registration identification (ERI) for vehicles —**

### **Part 3: Vehicle data**

*Systèmes de transport intelligents — Identification automatique  
des véhicules et des équipements — Identification d'enregistrement  
électronique (ERI) pour les véhicules —*

*Partie 3: Données du véhicule*



Reference number  
ISO 24534-3:2016(E)

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**ISO 24534-3:2016(E)**



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# Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>2</b>
<b>4 Abbreviations</b> .....	<b>3</b>
<b>5 Requirements</b> .....	<b>3</b>
5.1 Vehicle identification data.....	3
5.2 Vehicle identifier.....	4
5.3 ERI data type.....	5
5.4 Additional ERI data type.....	5
5.5 Additional ERI registration data.....	5
5.5.1 Additional ERI registration data type.....	5
5.5.2 Administrative types.....	11
5.5.3 EU vehicle category code type.....	12
5.5.4 Other Vehicle type types.....	13
5.5.5 ISO 3833 vehicle type.....	14
5.5.6 Other vehicle shape types.....	15
5.5.7 Number of passenger, axles, and mass types.....	15
5.5.8 Engine and power source types.....	17
5.5.9 Environmental types.....	18
5.5.10 Official test data type.....	19
5.5.11 Types used for EFC.....	19
5.5.12 Other types.....	26
5.6 Attributes.....	28
5.6.1 Introduction.....	28
5.6.2 Useful types.....	28
5.6.3 Useful sets of attributes.....	29
5.6.4 Information object class ATTRIBUTES.....	29
5.6.5 Attribute definitions.....	29
5.7 Encoding.....	30
<b>Annex A (normative) ASN.1 Modules</b> .....	<b>31</b>
<b>Annex B (informative) Combined ERI data and local registrations</b> .....	<b>50</b>
<b>Annex C (informative) Correspondance with EFC attributes</b> .....	<b>54</b>
<b>Bibliography</b> .....	<b>56</b>

## ISO 24534-3:2016(E)

## 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](http://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](http://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 on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 204, *Intelligent transport systems*.

This second edition cancels and replaces the first edition (ISO 2453-3:2010), which has been technically revised.

ISO 24534 consists of the following parts, under the general title *Automatic vehicle and equipment identification — Electronic registration identification (ERI) for vehicles*:

- *Part 1: Architecture*
- *Part 2: Operational requirements*
- *Part 3: Vehicle data*
- *Part 4: Secure communications using asymmetrical techniques*
- *Part 5: Secure communications using symmetrical techniques.*

## Introduction

A quickly emerging need has been identified within administrations to improve the unique identification of vehicles for a variety of services. Situations are already occurring where manufacturers intend to fit lifetime tags to vehicles. Various governments are considering the needs and benefits of ERI, such as legal proof of vehicle identity with potential mandatory usages. There is a commercial and economic justification both in respect of tags and infrastructure that a standard enables an interoperable solution.

Electronic registration identification (ERI) is a means of uniquely identifying road vehicles. The application of ERI will offer significant benefits over existing techniques for vehicle identification. It will be an enabling technology for the future management and administration of traffic and transport including applications in free-flow, multi-lane, traffic conditions with the capability to support mobile transactions. ERI addresses the need of authorities, and other users for a trusted electronic identification, including roaming vehicles.

This part of ISO 24534 specifies the vehicle-related data that can be exchanged between an onboard electronic registration tag (ERT) and an ERI reader/writer inside or outside the vehicle. The vehicle-related data consist of the vehicle identifier and may also include additional vehicle data as typically included in a vehicle registration certificate.

This part of ISO 24534 does not provide any accurate definitions for additional vehicle data items. This is left to the local registration authorities and/or local legislation. This part of ISO 24534 only provides the means for an unambiguous exchange of vehicle parameters registered by local registration authorities.

This part of ISO 24534 makes use of the basic automatic vehicle identification (AVI) definitions in ISO 14816.



# Intelligent transport systems — Automatic vehicle and equipment identification — Electronic registration identification (ERI) for vehicles —

## Part 3: Vehicle data

### 1 Scope

This part of ISO 24534 provides the requirements for an electronic registration identification (ERI) that is based on an identifier assigned to a vehicle (e.g. for recognition by national authorities) suitable to be used for the following:

- electronic identification of local and foreign vehicles by national authorities;
- vehicle manufacturing, in-life-maintenance, and end-of-life identification (vehicle life cycle management);
- adaptation of vehicle data, e.g. in case of international re-sales;
- safety-related purposes;
- crime reduction;
- commercial services;
- adhering to privacy and data protection regulations.

This part of ISO 24534 defines the vehicle identification data. This data is called the ERI data and includes the following:

- the vehicle identifier;
- possible additional vehicle-related information (as typically included in a vehicle registration certificate).

All additional vehicle data elements are defined as optional. It is left to local legislation and/or the discretion of a registration authority to use or not to use a particular data element. If used, the value is assumed to be the one registered by the registration authority in accordance with local legislation. This part of ISO 24534 only provides the syntax for all these data elements.

**NOTE** The secure application layer interfaces for the exchange of ERI data with an ERI reader or writer are specified in ISO 24534-4 and in ISO 24534-5.

### 2 Normative references

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

ISO 612:1978, *Road vehicles — Dimensions of motor vehicles and towed vehicles — Terms and definitions*

ISO 1176:1990, *Road vehicles — Masses — Vocabulary and codes*

ISO 3779, *Road vehicles — Vehicle identification number (VIN) — Content and structure*

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