

SLOVENSKI STANDARD

SIST-TS CEN ISO/TS 24534-3:2008

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Automatic vehicle and equipment identification - Electronic Registration Identification (ERI) for vehicles - Part 3: Vehicle data (ISO/TS 24534-3:2008)

Straßenverkehrstelematik (RTTT) - Automatische Identifizierung von Fahrzeugen und Ausrüstungen - Elektronische Identifizierung für die Registrierung (ERI) - Teil 3: Fahrzeugbezogene Daten (ISO/TS 24534-3:2008)

Identification automatique des véhicules et des équipements - Identification d'enregistrement électronique (ERI) pour les véhicules - Partie 3: Données du véhicule (ISO/TS 24534-3:2008)

Ta slovenski standard je istoveten z: CEN ISO/TS 24534-3:2008

ICS:

03.220.20	Cestni transport	Road transport
35.240.60	Uporabniške rešitve IT v transportu in trgovini	IT applications in transport and trade

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English Version

**Automatic vehicle and equipment identification - Electronic
Registration Identification (ERI) for vehicles - Part 3: Vehicle
data (ISO/TS 24534-3:2008)**

Identification automatique des véhicules et des
équipements - Identification d'enregistrement électronique
(ERI) pour les véhicules - Partie 3: Données du véhicule
(ISO/TS 24534-3:2008)

Straßenverkehrstelematik (RTTT) - Automatische
Identifizierung von Fahrzeugen und Ausrüstungen -
Elektronische Identifizierung für die Registrierung (ERI) -
Teil 3: Fahrzeugbezogene Daten (ISO/TS 24534-3:2008)

This Technical Specification (CEN/TS) was approved by CEN on 17 July 2006 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

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Contents	Page
Foreword.....	3

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Foreword

This document (CEN ISO/TS 24534-3:2008) 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 "Transport information and control systems".

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.

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**Automatic vehicle and equipment
identification — Electronic Registration
Identification (ERI) for vehicles —**

**Part 3:
Vehicle data**

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*Identification automatique des véhicules et des équipements —
Identification d'enregistrement électronique (ERI) pour les véhicules —
Partie 3: Données du véhicule*

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Published in Switzerland

Contents

Page

Foreword.....	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions.....	2
4 Abbreviations	3
5 Requirements	4
5.1 Vehicle identification data	4
5.2 The vehicle identifier	5
5.3 The ERI data type	5
5.4 The additional ERI data type.....	6
5.5 Additional ERI registration data	6
5.6 Encoding.....	21
Annex A (normative) ASN.1 Module.....	22
Annex B (informative) Combined ERI data and local registrations	28
Bibliography	32

SIST-TS CEN ISO/TS 24534-3:2008
<https://standards.itech.ai/catalog/standards/sist/85d58f2f-1a3e-42d4-9b7e-f820235a6f29/sist-ts-cen-iso-ts-24534-3-2008>

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.

In other circumstances, particularly when there is an urgent market requirement for such documents, a technical committee may decide to publish other types of normative document:

- an ISO Publicly Available Specification (ISO/PAS) represents an agreement between technical experts in an ISO working group and is accepted for publication if it is approved by more than 50 % of the members of the parent committee casting a vote;
- an ISO Technical Specification (ISO/TS) represents an agreement between the members of a technical committee and is accepted for publication if it is approved by 2/3 of the members of the committee casting a vote.

An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an International Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

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ISO/TS 24534-3 was prepared by Technical Committee ISO/TC 204, *Intelligent transport systems*, and by Technical Committee CEN/TC 278, *Road transport and traffic telematics* in collaboration.

ISO/TS 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/TS 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/TS 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/TS 24534 only provides the means for an unambiguous exchange of vehicle parameters registered by local registration authorities.

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

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Automatic vehicle and equipment identification — Electronic Registration Identification (ERI) for vehicles —

Part 3: Vehicle data

1 Scope

This part of ISO/TS 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:

- 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, and
- adhering to privacy and data protection regulations.

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

- the vehicle identifier, and
- 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/TS 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 Parts 4 and 5 of ISO/TS 24534.

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

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