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Road vehicles - Standardized access to automotive repair and maintenance information (RMI) - Part 4: Conformance test (ISO 18541-4:2021)

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See Eesti standard EVS-EN ISO 18541-4:2021 sisaldab Euroopa standardi EN ISO 18541-4:2021 ingliskeelset teksti. Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas. Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 30.06.2021. Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.	This Estonian standard EVS-EN ISO 18541-4:2021 consists of the English text of the European standard EN ISO 18541-4:2021. This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation. Date of Availability of the European standard is 30.06.2021. The standard is available from the Estonian Centre for Standardisation and Accreditation.

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ICS 43.040.15, 43.180

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN ISO 18541-4

June 2021

ICS 43.180; 43.040.15

Supersedes EN ISO 18541-4:2015

English Version

Road vehicles - Standardized access to automotive repair and maintenance information (RMI) - Part 4: Conformance test (ISO 18541-4:2021)

Véhicules routiers - Normalisation de l'accès aux informations relatives à la réparation et à la maintenance pour l'automobile (RMI) - Partie 4: Test de conformité (ISO 18541-4:2021)

Straßenfahrzeuge - Standardisierter Zugang zu Reparatur- und Wartungsinformationen (RMI) - Teil 4: Konformitätsprüfung (ISO 18541-4:2021)

This European Standard was approved by CEN on 1 June 2021.

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Ref. No. EN ISO 18541-4:2021 E

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European foreword

This document (EN ISO 18541-4:2021) has been prepared by Technical Committee ISO/TC 22 "Road vehicles" in collaboration with Technical Committee CEN/TC 301 “Road vehicles” the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by December 2021, and conflicting national standards shall be withdrawn at the latest by December 2021.

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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 22, *Road vehicles*, Subcommittee SC 31, *Data communication,* in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 301, *Road vehicles,* in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 18541-4:2015), which has been technically revised.

The main changes compared to the previous edition are as follows:

— security related updates taken in synchronization with ISO 18541-1 to ISO 18541-3;

— editorial updates.

A list of all parts in the ISO 18541 series can be found on the ISO website.

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.

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Introduction

The ISO 18541 series includes the requirements to be fulfilled by repair and maintenance information (RMI) systems as applied by the European Commission - Enterprise and Industry Directorate-General, Consumer goods - Automotive industry EC mandate M/421 [5] dated Brussels, 21 January 2008.

This mandate relates to the EC type-approval system for vehicles falling into the scopes of Directives 70/156/EEC (replaced by 2007/46/EC [8]), 2002/24/EC [replaced by (EU) 168/2013] and 2003/37/EC [replaced by (EU) 167/2013] and, in particular, to requirements for access to vehicle repair and maintenance information by independent operators.

The purpose of the EC Mandate M/421 [5] is to develop a standard or set of standards which specify the requirements to provide "standardized access to repair and maintenance information (RMI)" for independent operators.

The ISO 18541 series only covers access to automotive repair and maintenance information for light passenger and commercial vehicles [see (EC) No 715/2007 [9], (EC) No 692/2008 [10] and (EU) No 566/2011 [11]] and heavy-duty vehicles [see (EC) No 595/2009, (EU) No 582/2011 and (EU) No 64/2012] based on Directive 2007/46/EC [8] and for two-or three-wheel vehicles and quadricycles based on regulation (EU) 168/2013.

The information included in the ISO 18541 series derives from the legislative requirements on European level in the field of repair and maintenance information and related security requirements and can be referenced by legislation in other countries.

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Road vehicles — Standardized access to automotive repair and maintenance information (RMI) —

Part 4: Conformance test

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1 Scope

This document specifies a conformance test for a vehicle manufacturer assessment of self-conformance of the VM RMI system. The conformance test cases follow the use case definition of ISO 18541-1 and the requirements stated in ISO 18541-2 and ISO 18541-3.

The primary, but not exclusive, purpose of this document is to provide information to the VM RMI system provider to build and test the VM RMI system against the conformance test cases. This final step in the development process of the VM RMI system is an enabler for all providers that their VM RMI system meets a high degree of functional requirements expected by the end user.

Furthermore, this document defines in Annex A conformance test cases for the use cases and requirements versions that apply for granting access to security-related RMI following the SERMI scheme.

This document is applicable to light passenger and commercial vehicles as defined in regulation (EC) 715/2007 Article 2 [9].

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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/IEC 9594-8, *Information technology — Open systems interconnection — Part 8: The Directory: Public-key and attribute certificate frameworks*

ISO 18541-1, *Road vehicles — Standardized access to automotive repair and maintenance information (RMI) — Part 1: General information and use case definition*

ISO 18541-2:2021, *Road vehicles — Standardized access to automotive repair and maintenance information (RMI) — Part 2: Technical requirements*

ISO 18541-3, *Road vehicles — Standardized access to automotive repair and maintenance information (RMI) — Part 3: Functional user interface requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 18541-1, ISO 18541-3 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

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