INTERNATIONAL STANDARD

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

Part 6:

L-Category vehicle specific RMI use iTeh STANDARD PREVIEW

(SVéhicules routiers — Normalisation de l'accès aux informations relatives à la réparation et à la maintenance pour l'automobile (RMI) —

https://standards.iteh.Rartie 6: Exigences et cas d'usage RMI spécifiques aux véhicules de beatégorie L/iso-18541-6-2018



iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 18541-6:2018 https://standards.iteh.ai/catalog/standards/sist/06e3a96a-1cb7-437b-8a8fb2596ed59c16/iso-18541-6-2018



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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 on 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 the following URL: www.iso.org/iso/foreword.html. (standards.iteh.ai)

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

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

This corrected version of ISO 18541-6:2018 incorporates the following corrections:

Figure 9 has been replaced with the correct figure.

Introduction

This document includes the requirements to be fulfilled by Repair and Maintenance Information (RMI) systems as applied by Reference [6].

This mandate relates to the EC type-approval system for vehicles falling into the scopes of Reference [2], Reference [7] and Reference [8] and, in particular, to requirements for access to vehicle repair and maintenance information by independent operators.

The purpose of Reference [6] 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.

This document covers the access to repair and maintenance information for L-category vehicles (two-wheel or three-wheel vehicles and quadricycles) based on Reference [11] and related delegated and implementing acts.

The information included in this document 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 6:

L-Category vehicle specific RMI use cases and requirements

1 Scope

This document contains all elements (definitions, use cases, technical requirements, functional user interfaces requirements and conformance test cases) applicable for the standardized access to repair and maintenance information for two-wheeled and three-wheeled vehicles and quadricycles (L-category vehicles)

The development of this document has been based on ISO 18541-1, ISO 18541-2, ISO 18541-3 and ISO 18541-4. This document constitutes an adaptation of standardized access to RMI prescriptions for passenger cars to L-category vehicles keeping the objectives and principles of the mandate M/421 from the European commission.

This document references the usage of a Digital Annex of standardized search terms for RMI. The provision of such a Digital Annex will follow the process described in ISO 18542.

CEN will nominate a Registration Author<u>ity according to</u> ISO 18542 for the creation and maintenance of an appropriate Digital Annex. https://standards.iteh.ai/catalog/standards/sist/06e3a96a-1cb7-437b-8a8f-b2596ed59c16/iso-18541-6-2018

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 18541-1:2014, Road vehicles — Standardized access to automotive repair and maintenance information (RMI) — Part 1: General information and use case definition

ISO 18541-2:2014, Road vehicles — Standardized access to automotive repair and maintenance information (RMI) — Part 2: Technical requirements

ISO 18541-3:2014, Road vehicles — Standardized access to automotive repair and maintenance information (RMI) — Part 3: Functional user interface requirements

ISO 18541-4:2015, Road vehicles — Standardized access to automotive repair and maintenance information (RMI) — Part 4: Conformance test

ISO 22900-2, Road vehicles — Modular vehicle communication interface (MVCI) — Part 2: Diagnostic protocol data unit application programming interface (D-PDU API)

SAE [2534-11], Recommended Practice for Pass-Thru Vehicle Programming

SAE [2534-21], Optional Pass-Thru Features

^{1) &}lt;a href="http://store.sae.org/">http://store.sae.org/

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1.1

access levels

one of the levels of access to RMI

Note 1 to entry: Two access levels are defined by this document: an access to RMI relevant to security and another one to RMI not relevant to security.

EXAMPLE One can consider an access to RMI relevant to security and another one to RMI not relevant to security. They represent two different access levels.

3.1.2

accessories

supplementary features and components selected by a vehicle owner to enhance safety, performance, comfort, etc. and whose fitting does not impact the vehicle approval to enhance safety, performance, comfort, etc. and whose fitting does not impact the vehicle approval to enhance safety, performance, comfort, etc. and whose fitting does not impact the vehicle approval to enhance safety, performance, comfort, etc. and whose fitting does not impact the vehicle approval to enhance safety, performance, comfort, etc.

3.1.3

alternate fuel

(standards.iteh.ai)

type of fuel that is either gaseous at atmospheric temperature and pressure or substantially nonmineral oil derived ISO 18541-62018

3.1.4

https://standards.iteh.ai/catalog/standards/sist/06e3a96a-1cb7-437b-8a8f-

b2596ed59c16/iso-18541-6-2018

alternative fuels retrofit systems

engine systems mounted on an already registered *vehicle* (3.1.54) for the purpose of operation with alternative fuels

3.1.5

alternative fuels system manufacturer

manufacturer (3.1.29) of an engine system operating with an alternative fuel

3.1.6

appropriate software level

applicable software version for the individual *vehicle* (3.1.54)

3.1.7

authorized repairer

ΔR

provider of repair and maintenance services for motor vehicles operating within the distribution system set up by a supplier of motor vehicles

Note 1 to entry: See Reference [10].

3.1.8

base vehicle

type-approved motor vehicle used at the initial stage of a multi-stage type-approval process

Note 1 to entry: A base vehicle may be a complete or an incomplete vehicle (3.1.18).

3.1.9

certificate

electronic document which uses a digital signature to bind a public key with an identity

3.1.10

complete vehicle

vehicle (3.1.54) which needs not to be completed in order to meet the relevant technical requirements for type-approval in the European Union

Note 1 to entry: Adopted from Reference [11].

Note 2 to entry: Requirements for European type-approval may be in Reference [11] or in any of the delegated or implementing acts adopted pursuant to this Regulation where those acts make express provision for so doing.

3.1.11

completed vehicle

vehicle (3.1.54), resulting from the process of multi-stage type-approval, which meets the relevant technical requirements for type-approval in the European Union

Note 1 to entry: A completed vehicle is also a *complete vehicle* (3.1.10).

Note 2 to entry: Adopted from Reference [11].

Note 3 to entry: Requirements for European type-approval may be in Reference [11] or in any of the delegated or implementing acts adopted pursuant to this Regulation where those acts make express provision for so doing.

3.1.12

component

device subject to the requirements for type-approval in the European Union or any of the delegated or implementing acts adopted pursuant to this Regulation, which is intended to be part of a *vehicle* (3.1.54) and which can be type-approved independently of a *vehicle* in accordance with this Regulation and the delegated or implementing acts adopted pursuant to this Regulation where those acts make express provision for so doing (Standards.iteh.al)

Note 1 to entry: Adopted from Reference [11]_{SO 18541-6:2018}

Note 2 to entry: Requirements for European type-approval may be in Reference [14] or in any of the delegated or implementing acts adopted pursuant to this Regulation where those acts make express provision for so doing.

3.1.13

detailed diagnosis

diagnostic process that identifies, with precision, potential malfunction causes

Note 1 to entry: A precise diagnosis may be achieved in several steps, whereby the user may be requested to perform test actions on the vehicle or to enter symptoms.

3.1.14

diagnostic information

description of an error or symptom and a list of potential causes or hints for further investigation to the same level and content as provided to AR

3.1.15

diagnostic trouble code

DTC

numeric or alphanumeric identifier which identifies or labels a malfunction[SOURCE: Reference [12], modified]

3.1.16

electronic maintenance history

digital *information package* (3.1.23) with virtual stamps that confirms the execution of the prescribed maintenance actions according to the VM's schedule

3.1.17

final manufacturer

manufacturer (3.1.29) responsible for the type approval of a *complete vehicle* (3.1.10) or *completed vehicle* (3.1.11) in a multi-stage type-approval

3.1.18

incomplete vehicle

vehicle (3.1.54) which undergoes at least one further stage of completion in order to meet the relevant technical requirements for type-approval in the European Union

Note 1 to entry: Adopted from Reference [11].

Note 2 to entry: The technical requirements for type-approval in the European Union may be in Reference [11] or in any of the delegated or implementing acts adopted pursuant to this Regulation where those acts make express provision for so doing.

3.1.19

independent operator

undertakings other than authorized dealers and repairers which are directly or indirectly involved in the repair and maintenance of motor vehicles, in particular repairers, manufacturers (3.1.29) or distributors of repair equipment, tools or spare parts, publishers of technical information, automobile clubs, roadside assistance operators, operators offering inspection and testing services, operators offering training for installers, manufacturers and repairers of equipment for alternative fuel vehicles

Note 1 to entry: Undertaking is to be understood as the company or legal entity.

3.1.20

10 approval

process by which, upon payment of a reasonable and proportionate fee, the CAB sanctions or approves a legitimate commercial enterprise to engage in security related RMI activities

3.1.21

(standards.iteh.ai) **IO** authorization

process based on the inspection performed by the CAB that assesses an individual employee of an approved IO company is entitled to be given access to security-related RMI and to be provided with a securehardware token containing a personal digital certificate and a PIN-issued by a designated b2596ed59c16/iso-18541-6-2018 Trust Center

Note 1 to entry: As part of this authorization, the individual employee will be allocated, upon payment of a (reasonable and proportionate) fee, a secure hardware token containing a personal digital certificate (3.1.9) and a PIN that will be supplied by the Trust Centre.

3.1.22

IO legal representative

natural person empowered to legally represent the IO in all aspects of the access to vehicle RMI

3.1.23

information package

collection of information provided by the MA RMI system (3.1.30) in response to a specific request

3.1.24

information type

category, group or set of information

Workshop procedures (3.1.57) (for body repair, temporary repair, periodic technical inspection). **EXAMPLE** wiring diagrams, technical service bulletins (3.1.52), recall information and maintenance information.

3.1.25

integrated diagnostics

process which interprets via an integrated application the memory content of ECUs and provides a diagnostic and repair recommendation

Note 1 to entry: Diagnostic application and MA RMI system (3.1.30) cooperate online, so technical information is provided during the diagnostics process and used for the diagnostic steps.

3.1.26

IO employee

natural person employed by the IO(3.1.19)

3.1.27

maintenance history

history of the performed, prescribed actions for maintaining a vehicle (3.1.54)

EXAMPLE Oil changes and other periodic maintenance.

3.1.28

maintenance schedule

prescribed sequence of maintenance actions for a vehicle (3.1.54) following the requirements of the manufacturer (3.1.29)

3.1.29

manufacturer

MA

any natural or legal person who is responsible to the approval authority for all aspects of the typeapproval or authorisation process, for ensuring conformity of production and who is also responsible for market surveillance concerns for the vehicles (3.1.54), systems, components (3.1.12) and separate technical units (3.1.49) produced, whether or not the natural or legal person is directly involved in all stages of the design and construction of the vehicle, system, component or separate technical unit which is the subject of the approval process[SOURCE: Reference [11], modified]

manufacturer repair and maintenance information system

standards.iteh.ai information system by which the *manufacturer* (3.1.29) provides access to RMI through a website

ISO 18541-6:2018 3.1.31

multi-stage vehiclettps://standards.iteh.ai/catalog/standards/sist/06e3a96a-1cb7-437b-8a8f-

complete vehicle (3.1.10) manufactured and type-approved in two or more stages by usually different manufacturers (3.1.29) per stage

3.1.32

on-board diagnostics

system on board of a vehicle (3.1.54) or engine which has the capability of detecting malfunctions, and, if applicable, of indicating their occurrence by means of an alert system, of identifying the likely area of the malfunctions by means of information stored in computer memory, and/or communicating that information off-board

3.1.33

n-code

standardized DTC for powertrain errors

Note 1 to entry: According to ISO 15031-6.

3.1.34

partnered accessories

accessories (3.1.2) which have been tested, quality assured and certified by the MA (3.1.29) and for which the MA assumes product liability

3.1.35

potential repair descriptions

list of potential causes and possible actions recommended to fix a problem