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Road vehicles — Information for remote diagnostic support — General requirements, definitions and use cases

Véhicules routiers — Information pour support de diagnostic à distance — Exigences générales, définitions et cas d'utilisation

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Foreword

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This document was prepared by Technical Committee ISO/TC 22, *Road vehicles*, Subcommittee SC 31, *Data communication*.

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

Remote diagnostic support is used for diagnosing vehicles at a distance prior to repair work, thereby minimizing the time spent in workshops, reducing disturbances on the road network, reducing inconvenience for the vehicle users and reducing cost for vehicle owners.

This document defines remote diagnostic support and the constraints that need to be respected. This document may also serve as a reference for other standards that relate to remote diagnostic support.

This document will facilitate exchange of information for remote diagnostic support between the different stakeholders (including vehicle manufacturers and independent operators) of the vehicle repair industry.

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Road vehicles — Information for remote diagnostic support — General requirements, definitions and use cases

1 Scope

This document specifies general requirements and constraints applicable to a remote diagnostic process, the use cases and scenarios to support the implementation of a remote diagnostic process using a standardized interface of the ExVe.

It concerns:

— the road vehicles with four or more wheels designed and constructed primarily for the carriage of persons that are defined as Category 1 vehicles in the United Nations Special Resolution No.1 in TRANS/WP.29/1045, as last amended on 19 June 2012, and

— the road vehicle with four or more wheels designed and constructed primarily for the carriage of goods that are defined as Category 2 vehicles in the United Nations Special Resolution No.1 in TRANS/WP.29/1045, as last amended on 19 June 2012,

where these road vehicles are still in accordance with the specifications of the vehicle manufacturer.

This document does not define the interfaces provided by the ExVe nor the internal implementation inside the ExVe.

Processes like repair, prognostics, monitoring, configuration, re-programming and variant coding are not part of this document.

The prerequisites (e.g. authentication and authorization) for all use cases are not covered within this document. A possible specification of the required content for the implementation of a remote diagnostic application using the web interface of the ExVe according to ISO 20078 is given in Annex A.

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 20077-1:2017, *Road Vehicles — Extended vehicle (ExVe) methodology — Part 1: General information*

3 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 https://www.iso.org/obp

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