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BSI Standards Publication

Road Vehicles — Extended vehicle (ExVe) methodology

Part 1: General information

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National foreword

This British Standard is the UK implementation of ISO 20077-1:2017.

The UK participation in its preparation was entrusted to Technical Committee AUE/16, Data Communication (Road Vehicles).

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Road Vehicles — Extended vehicle (ExVe) methodology —

Part 1: General information

*Véhicules routiers — Méthodologie du véhicule étendu (ExVe) —
Partie 1: Information générale*



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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.

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

A list of all parts in the ISO 20077 series can be found on the ISO website.

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Introduction

This document is the first part of a series of ISO Standards dedicated to the extended vehicle.

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Part 1: General information

1 Scope

This document defines the concepts and the terms related to extended vehicles.

It presents general information regarding these vehicles, specifies the dedicated terminology and describes the interrelation with other standards related to extended vehicles.

It concerns:

- 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;
- road vehicles 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.

While this document mentions already standardized interfaces and devices (e.g. external test equipment) connected to these interfaces, the specification of these interfaces and devices is not within the scope of this document.

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 20077-2:—¹⁾, *Road vehicles — Extended vehicle (ExVe) methodology — Part 2: Methodology for designing the extended vehicle*

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 <http://www.iso.org/obp>

NOTE Illustration through a practical case of the interrelation between the diagnostics and prognostics concepts defined respectively in 3.2 to 3.4 and 3.13 may be found in [Annex A](#).

3.1

diagnosis

result of a *diagnostic process* ([3.2](#)) carried out on a vehicle

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