IEC 62625-2

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

colour inside

Electronic railway equipment – On board driving data recording system – Part 2: Conformity testing

Matériel électronique ferroviaire – Système embarqué d'enregistrement de données de conduite – Partie 2: Essais de conformité

IEC 62625-2:2016-01(en-fr)

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FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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The text of this standard is based on the following documents:

FDIS	Report on voting
9/2081/FDIS	9/2118/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62625 series, published under the general title *Electronic railway equipment – On board driving data recording system*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

In consideration that IEC 62625-1 specifies the ODDRS (On Board Driving Data Recording System) requirements in terms of functional and system descriptions, a standardized conformity testing approach was developed in this standard on the base of the ISO/IEC 9646 series standards.

The ISO/IEC 9646 series standards apply to the assessment of communication protocol and are based on the concept of PICS (Protocol Implementation Conformity Statement) and PIXIT (Protocol Implementation eXtra Information for Testing). This standard extends the concepts to functional and system description introducing FICS (Function Implementation Conformity Statement), SICS (System Implementation Conformity Statement) and IXIT (Implementation eXtra Information for Testing).

The IEC 62625-1 requirements implementation, formally described by FICS, SICS and IXIT are verified by design review and other test methods applied to ODDR Unit and ODDRS installed on the train.

ELECTRONIC RAILWAY EQUIPMENT – ON BOARD DRIVING DATA RECORDING SYSTEM –

Part 2: Conformity testing

1 Scope

This part of IEC 62625 covers the standardized test methods for verifying the compliance of an On board Driving Data Recording System implementation with the requirements specified by IEC 62625-1.

Furthermore, it covers the conformity testing criteria for designed and manufactured ODDRS. This part of IEC 62625 includes the list of the requirements specified by IEC 62625-1 and the relevant acceptance conditions for ODDRS at design review, type test and routine test phases. For the train level design review and train level test phases, this part provides guidelines for the conformity testing methods to be applied to the ODDRS installed on the train.

This part does not cover the conformity assessment schemes that, according to ISO/IEC Directives Part 2, are the responsibility of ISO policy committee “Committee on conformity assessment” (ISO/CASCO). Consequently, this part does not include elements related to conformity assessment aspects other than design review and testing provisions for the products, processes or services which implements the requirements specified in IEC 62625-1. This part does not delete, change or interpret the general requirements for conformity assessment procedures and vocabulary detailed in ISO/IEC 17000.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60571, *Railway applications – Electronic equipment used on rolling stock*

IEC 61375 (all parts), *Electronic railway equipment – Train communication network (TCN)*

IEC 62498-1, *Railway applications – Environmental conditions for equipment – Part 1: Equipment on board rolling stock*

IEC 62625-1:2013, *Electronic railway equipment – On board driving data recording system – Part 1: System specification*

ISO/IEC 8824 (all parts), *Information technology – Abstract Syntax Notation One (ASN.1)*

3 Terms, definitions, abbreviations, acronyms, and conventions

3.1 Terms and definitions

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