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TECHNICAL SPECIFICATION



**Railway applications – Procedure to determine the performance requirements
for radio systems applied to radio-based train control systems**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RAILWAY APPLICATIONS – PROCEDURE TO DETERMINE THE PERFORMANCE REQUIREMENTS FOR RADIO SYSTEMS APPLIED TO RADIO-BASED TRAIN CONTROL SYSTEMS

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC TS 62773, which is a technical specification, has been prepared by IEC technical committee 9: Electrical equipment and systems for railways.

The text of this technical specification is based on the following documents:

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Full information on the voting for the approval of this technical specification 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.

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

- transformed into an International standard,
- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

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INTRODUCTION

The purpose of this Technical Specification is to provide a guideline for the rail transport authority and/or the supplier of the radio system to determine performance requirements of the radio system from the conditions of the railway systems using the radio-based train control systems.

This Technical Specification specifies the procedure to determine the performance requirements for radio system applied to the radio-based train control systems. The performance requirements are related to the radio parameters. Each radio parameter needs to be set to an appropriate value to enable data exchange with quality of service that will meet the requirements from the railway system as a whole and particularly the train control functions. Radio parameters are then decided based on the analysis of the conditions of the railway system using the train control system.

RAILWAY APPLICATIONS – PROCEDURE TO DETERMINE THE PERFORMANCE REQUIREMENTS FOR RADIO SYSTEMS APPLIED TO RADIO-BASED TRAIN CONTROL SYSTEMS

1 Scope

The objective of this Technical Specification is to establish a procedure to be used by rail transport authorities and/or radio suppliers to determine the appropriate performance requirements of radio system for a radio-based train control system, consistent with their specific business needs and existing conditions: the Technical Specification itself consists in defining a procedure linking preconditions to some radio parameters. Then, the appropriate performance requirements are deduced by the user of the Technical Specification from the radio parameters.

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.

None.