PD CLC/TR 50542-1:2018

BSI Standards Publication

Railway applications - Driver's cab train display controller (TDC)

Part 1: General architecture

bsi.

National foreword

This Published Document is the UK implementation of CLC/TR 50542-1:2018. It supersedes PD CLC/TR 50542-1:2014, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee GEL/9, Railway Electrotechnical Applications.

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.

Published by BSI Standards Limited 2018

ISBN 978 0 580 98995 7

ICS 93.100; 45.020; 35.240.60

Compliance with a British Standard cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 31 May 2018.

Amendments/corrigenda issued since publication

Date	Text affected

TECHNICAL REPORT

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

CLC/TR 50542-1

May 2018

ICS 35.240.60; 45.020

Supersedes CLC/TR 50542-1:2014

English Version

Railway applications - Driver's cab train display controller (TDC) - Part 1: General architecture

Applications ferroviaires - Contrôleur d'écrans de cabine (TDC) - Partie 1 : Architecture générale

Bahnanwendungen - Display-Steuereinheit für Führerräume - Teil 1: Allgemeine Architektur

This Technical Report was approved by CENELEC on 2018-02-26.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 6

4 Symbols and abbreviations 8

5 Functions 9
5.1 Definitions 9
5.1.1 General 9
5.1.2 Button management 9
5.1.3 Indicator management 9
5.1.4 Text management 9
5.1.5 Sound management 9
5.1.6 Data Entry management 10
5.1.7 Data Confirmation management 10
5.1.8 Dataview management 10
5.1.9 Video management 10
5.1.10 Window management 10
5.1.11 Status management 10
5.1.12 Display Parameters management 11
5.2 Delays 11

6 Communication 11

7 Safety targets 11

8 Certification/validation 12

9 TDC general description 12
9.1 General 12
9.2 Information destination 12
9.3 Second source 13
9.4 TDC and display maintenance and LCC 13
9.5 Safety and reliability targets 14
9.6 TDC display redundancy management 14
9.7 TDC recommended architecture 14
9.7.1 Constraints 14
9.7.2 TDC architecture examples 15

Annex A (informative) **Relations between the functions described in the documents of the CLC/TR 50542 series** 18

Bibliography 20