ICS 35.240.60, 45.020 TECHNICKÁ NORMALIZAČNÁ INFORMÁCIA Júl 2025

TNI	**Dráhové aplikácie Vlaková riadiaca jednotka pre displeje (TDC) v kabíne rušňovodiča Časť 2: Špecifikácia funkčného rozhrania (FIS) pre displeje**	**TNI CLC/TR 50542-2** 34 2660

Railway applications - Driver`s cab Train Display Controller (TDC) - Part 2: Display systems FIS

Táto technická normalizačná informácia obsahuje anglickú verziu CLC/TR 50542-2:2025.
This Technical standard information includes the English version of CLC/TR 50542-2:2025.

Táto technická normalizačná informácia bola oznámená vo Vestníku ÚNMS SR č. 06/25

Oznámením tohto dokumentu sa ruší
TNI CLC/TR 50542-2 (34 2660) z augusta 2017

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TECHNICAL REPORT

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CLC/TR 50542-2

April 2025

ICS 35.240.60; 45.020

Supersedes CLC/TR 50542-2:2016

English Version

Railway applications - Driver's cab Train Display Controller (TDC) - Part 2: Display systems FIS

Applications ferroviaires - Contrôleur d'écrans de cabine (TDC) - Partie 2 : FIS de systèmes d'affichage

Bahnanwendungen - Train Display Controller (TDC) im Führerraum - Teil 2: Spezifikation der Funktionalen Schnittstelle(FIS) Anzeigesysteme

This Technical Report was approved by CENELEC on 2025-04-16.

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

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European foreword

This document (CLC/TR 50542-2:2025) has been prepared by CLC/TC 9X “Electrical and electronic applications for railways”.

This document supersedes CLC/TR 50542-2:2016 and all of its amendments and corrigenda (if any).

CLC/TR 50542-2:2025 includes the following significant technical changes with respect to CLC/TR 50542-2:2016:

— No technical changes.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Any feedback and questions on this document should be directed to the users’ national committee. A complete listing of these bodies can be found on the CENELEC website.

Introduction

The extent of this document is the functional interface between the TDC and the displays. The functional definition of this interface is a key feature in the process to increase market development, for instance:

— by introducing more suppliers for new rolling stock development and for driver's cab refurbishment;

— by easing the control of maintenance and the replacement processes;

— by decreasing the related equipment life cycle cost.

In this document, the displays and the TDC are considered only regarding their functionalities and not as physical devices.

The CLC/TR 50542 series consists of three documents:

— CLC/TR 50542-1, *Railway applications — Driver's cab Train Display Controller (TDC) — Part 1: General architecture* (this document);

— CLC/TR 50542-2, *Railway applications — Driver's cab Train Display Controller (TDC) — Part 2: Display systems FIS*;

— CLC/TR 50542-3, *Railway applications — Driver's cab Train Display Controller (TDC) — Part 3: Other train systems FIS*.

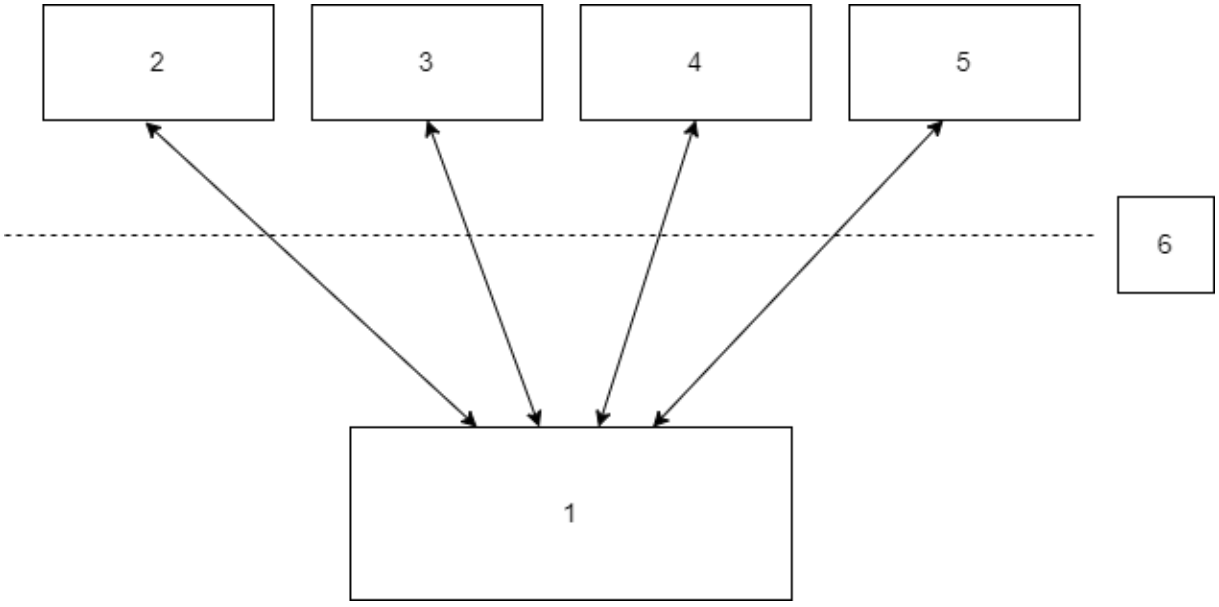
This series of documents is not a standard but the result of a study on the future view of the system. They do not describe an existing solution for the TDS.

These documents are not written to be used in call for tenders because they are not sufficient. However, they can serve as a basis for future development and standardization including new technologies. These documents are a first step and may be completed later.

NOTE In case of existing discrepancies between CLC/TR 50542-1:2025 and CLC/TR 50542-2:2025, this document prevails.

1 Scope

The scope of this document is the definition of the functional interface between TDC and DMIs.



Key

1	TDC	4	ETD
2	CCD	5	TTD
3	TRD	6	functional interface

Figure 1 — TDC DMI functional architecture

The DMIs are those defined and considered in CLC/TR 50542-1:2025.

The TDC is defined in CLC/TR 50542-1:2025.

NOTE 1 The conversion of physical signals into numerical representation is out of scope.

NOTE 2 The term DMI is used in this clause as synonym for display.

2 Normative references

There are no normative references in this document.