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Irish Standard Recommendation  
S.R. CLC/TS 50459-3:2016

# Railway applications - Communication, signalling and processing systems - European Rail Traffic Management System - Driver- Machine Interface - Part 3: Ergonomic arrangements of non ETCS information

**S.R. CLC/TS 50459-3:2016**

*Incorporating amendments/corrigenda/National Annexes issued since publication:*

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## National Foreword

S.R. CLC/TS 50459-3:2016 is the adopted Irish version of the European Document CLC/TS 50459-3:2016, Railway applications - Communication, signalling and processing systems - European Rail Traffic Management System - Driver-Machine Interface - Part 3: Ergonomic arrangements of non ETCS information

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**Railway applications - Communication, signalling and processing systems - European Rail Traffic Management System - Driver-Machine Interface - Part 3: Ergonomic arrangements of non ETCS information**

Applications ferroviaires - Systèmes de signalisation, de télécommunications et de traitement - Système européen de gestion du trafic ferroviaire - Interface de conduite - Partie 3: Principes généraux pour la présentation des informations non ETCS

Bahnanwendungen - Telekommunikationstechnik, Signaltechnik und Datenverarbeitungssysteme - Europäisches Leitsystem für den Schienenverkehr - Mensch-Maschine Schnittstelle - Teil 3: Ergonomische Anordnung der Nicht-ETCS Informationen

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## Contents

	Page
<b>European foreword.....</b>	<b>7</b>
<b>Introduction.....</b>	<b>8</b>
<b>1 Scope .....</b>	<b>9</b>
<b>2 Normative references.....</b>	<b>9</b>
<b>3 Terms, definitions and abbreviated terms .....</b>	<b>9</b>
3.1 Terms and definitions .....	9
3.2 Abbreviated terms .....	10
<b>4 General principles .....</b>	<b>10</b>
4.1 Purpose of document .....	10
4.1.1 General .....	10
4.1.2 Ergonomic arrangements of areas of the ETCS layout.....	11
4.1.3 ETCS objects.....	12
4.1.4 Non ETCS objects .....	12
4.2 Audible information for non ETCS systems.....	12
4.3 Data entry .....	12
<b>5 Non ETCS symbols .....</b>	<b>13</b>
5.1 General requirements for unified DMI service.....	13
5.2 Symbols for other train functions .....	13
<b>Annex A (informative) Integration of NTC and/or other on-board systems .....</b>	<b>14</b>
<b>A.1 Usage of screen areas .....</b>	<b>14</b>
<b>A.2 LZB/PZB NTC .....</b>	<b>14</b>
<b>A.2.1 Scope and field of specification .....</b>	<b>14</b>
<b>A.2.2 Overview.....</b>	<b>14</b>
<b>A.2.3 Positioning onto the grid array .....</b>	<b>16</b>
<b>A.2.3.1 Area description .....</b>	<b>16</b>
<b>A.2.3.2 Speed and distance monitoring – supervision status .....</b>	<b>16</b>
<b>A.2.4 ETCS and LZB/PZB information shown on a LZB/PZB default window .....</b>	<b>17</b>
<b>A.2.4.1 Introduction.....</b>	<b>17</b>
<b>A.2.4.2 ETCS objects .....</b>	<b>17</b>
<b>A.2.4.3 NTC objects.....</b>	<b>17</b>
<b>A.2.4.3.1 General.....</b>	<b>17</b>
<b>A.2.4.3.2 Indicators PLZB_C2/3/4/5/6.....</b>	<b>17</b>
<b>A.2.4.3.3 Supervision information .....</b>	<b>17</b>
<b>A.2.4.3.3.1 Current train speed pointer .....</b>	<b>17</b>
<b>A.2.4.3.3.2 Vperm of LZB .....</b>	<b>17</b>
<b>A.2.4.3.3.3 Vtarget of LZB.....</b>	<b>17</b>
<b>A.2.4.3.3.4 Vperm of ASC .....</b>	<b>17</b>

A.2.4.3.3.5 Vperm of 'Cruise Control' .....	18
A.2.5 LZB/PZB sub-level windows .....	18
A.2.5.1 Introduction.....	18
A.2.5.2 Menu windows .....	19
A.2.5.2.1 LZB/PZB data entry windows ) .....	19
A.2.5.2.2 LZB/PZB data validation windows .....	20
A.2.5.2.3 LZB/PZB data view window .....	21
A.2.6 LZB/PZB symbols .....	22
A.2.6.1 Level symbols .....	22
A.2.6.2 Mode symbols.....	22
A.2.6.3 Status symbols .....	22
A.2.6.4 Orders and announcement of track condition symbols.....	27
A.2.6.5 Planning information symbols.....	27
A.2.6.6 Navigation symbols.....	27
A.2.6.7 Supervision symbols .....	27
A.2.6.8 Driver request symbols.....	27
A.2.7 LZB/PZB audible information.....	28
A.2.7.1 General .....	28
A.2.7.2 PLZB_S1 - SCHNARRE .....	28
A.2.7.3 PLZB_S2 - HUPE.....	28
A.2.7.4 PLZB_S3 - EMERGENCY_BRAKE_INTERVENTION .....	28
A.2.8 LZB/PZB List of system status messages .....	28
A.3 AWS/TPWS NTC with DAS/ATO .....	28
A.3.1 Scope and field of specification .....	28
A.3.2 Overview.....	29
A.3.3 Area description .....	30
A.3.4 ETCS and AWS/TPWS information shown on a AWS/TPWS default window .....	31
A.3.4.1 Introduction.....	31
A.3.4.2 ETCS objects .....	32
A.3.4.3 Non ETCS Objects.....	32
A.3.4.3.1 General.....	32
A.3.4.3.2 Indicators TPWS_C2/3/4/5/6 and TPWS_D20 .....	32
A.3.4.3.3 Buttons .....	32
A.3.5 AWS/TPWS sub-level windows.....	32
A.3.5.1 Introduction.....	32
A.3.5.2 AWS/TPWS window.....	33
A.3.6 AWS/TPWS symbols .....	34
A.3.6.1 Level symbols .....	34

<b>A.3.6.2 AWS/TPWS mode symbols .....</b>	<b>34</b>
<b>A.3.6.3 AWS/TPWS status symbols .....</b>	<b>36</b>
<b>A.3.6.4 ATO/DAS mode symbols .....</b>	<b>38</b>
<b>A.3.6.5 Planning information symbols.....</b>	<b>40</b>
<b>A.3.6.6 Driver request symbols.....</b>	<b>40</b>
<b>A.3.7 Audible information.....</b>	<b>40</b>
<b>A.3.8 AWS/TPWS list of system status messages .....</b>	<b>40</b>
<b>A.4 ATC2 .....</b>	<b>41</b>
<b>A.4.1 Scope and field of specification .....</b>	<b>41</b>
<b>A.4.2 Overview.....</b>	<b>41</b>
<b>A.4.3 Area description .....</b>	<b>42</b>
<b>A.4.4 ATC2 sub-level windows .....</b>	<b>43</b>
<b>A.4.4.1 Introduction.....</b>	<b>43</b>
<b>A.4.4.2 NTC objects.....</b>	<b>43</b>
<b>A.5 SCMT.....</b>	<b>43</b>
<b>A.5.1 Scope and field of specification .....</b>	<b>43</b>
<b>A.5.2 Overview.....</b>	<b>44</b>
<b>A.5.3 Area description .....</b>	<b>44</b>
<b>A.5.4 ETCS and SCMT Information shown on an ETCS default window .....</b>	<b>46</b>
<b>A.5.5 SCMT Sub-Level Windows .....</b>	<b>46</b>
<b>A.5.5.1 Introduction.....</b>	<b>46</b>
<b>A.5.5.2 ETCS objects .....</b>	<b>46</b>
<b>A.5.5.3 NTC objects.....</b>	<b>46</b>
<b>A.5.5.4 SCMT window .....</b>	<b>46</b>
<b>A.5.5.5 SCMT VMC data entry window.....</b>	<b>47</b>
<b>A.5.5.6 SCMT OM window .....</b>	<b>48</b>
<b>A.5.5.7 SCMT ATTO window .....</b>	<b>49</b>
<b>A.5.5.8 SCMT TRIP window .....</b>	<b>50</b>
<b>A.5.5.9 SCMT announcement window .....</b>	<b>51</b>
<b>A.5.6 SCMT symbols.....</b>	<b>52</b>
<b>A.5.6.1 Level symbols .....</b>	<b>52</b>
<b>A.5.6.2 Mode symbols.....</b>	<b>53</b>
<b>A.5.6.3 Touch key symbols .....</b>	<b>57</b>
<b>A.5.6.4 Orders and announcements.....</b>	<b>58</b>
<b>A.5.6.5 Planning information symbols .....</b>	<b>58</b>
<b>A.5.6.6 Navigation symbols.....</b>	<b>59</b>
<b>A.5.6.7 Settings symbols.....</b>	<b>59</b>
<b>A.5.6.8 Driver request symbols.....</b>	<b>59</b>

<b>A.5.7 SCMT audible information.....</b>	<b>60</b>
<b>A.5.8 SCMT List of system status messages .....</b>	<b>60</b>
<b>A.6 SHP .....</b>	<b>60</b>
<b>A.6.1 Scope and field of specification .....</b>	<b>60</b>
<b>A.6.2 Overview.....</b>	<b>61</b>
<b>A.6.3 Area description .....</b>	<b>61</b>
<b>A.6.4 ETCS and SHP information shown on a SHP default window.....</b>	<b>62</b>
<b>A.6.4.1 ETCS objects .....</b>	<b>62</b>
<b>A.6.4.2 NTC objects.....</b>	<b>62</b>
<b>A.6.4.2.1 General.....</b>	<b>62</b>
<b>A.6.4.2.2 Indicators .....</b>	<b>62</b>
<b>A.6.5 SHP sub-level windows .....</b>	<b>62</b>
<b>A.6.5.1 Introduction.....</b>	<b>62</b>
<b>A.6.5.2 SHP default window .....</b>	<b>63</b>
<b>A.6.6 SHP symbols.....</b>	<b>63</b>
<b>A.6.6.1 Level symbols .....</b>	<b>63</b>
<b>A.6.6.2 Mode symbols.....</b>	<b>64</b>
<b>A.6.6.3 Status symbols .....</b>	<b>64</b>
<b>A.6.6.4 Orders and announcement of Track Condition Symbols.....</b>	<b>65</b>
<b>A.6.6.5 Planning information symbols.....</b>	<b>65</b>
<b>A.6.6.6 Driver Request symbols .....</b>	<b>65</b>
<b>A.7 JKV .....</b>	<b>65</b>
<b>A.7.1 Scope and field of specification .....</b>	<b>65</b>
<b>A.7.2 Overview.....</b>	<b>66</b>
<b>A.7.3 Area description .....</b>	<b>67</b>
<b>Annex B (informative) Sounds for NTC and/or other on-board systems .....</b>	<b>69</b>
<b>B.1 General .....</b>	<b>69</b>
<b>B.2 Other train functions .....</b>	<b>69</b>
<b>B.2.1 S9 - Driver activity warning .....</b>	<b>69</b>
<b>B.3 NTC .....</b>	<b>70</b>
<b>B.3.1 LZB/PZB audible information.....</b>	<b>70</b>
<b>B.3.1.1 PLZB_S1 - SCHNARRE .....</b>	<b>70</b>
<b>B.3.1.2 PLZB_S2 - HUPE.....</b>	<b>71</b>
<b>B.3.1.3 PLZB_S3 - EMERGENCY_BRAKE_INTERVENTION .....</b>	<b>73</b>
<b>B.3.2 AWS/TPWS audible information .....</b>	<b>73</b>
<b>B.3.3 ATC2 audible information.....</b>	<b>73</b>
<b>B.3.4 SHP audible information.....</b>	<b>73</b>
<b>B.3.5 SCMT audible information.....</b>	<b>73</b>

<b>B.3.6 JKV audible information .....</b>	<b>73</b>
<b>Bibliography.....</b>	<b>74</b>

## European foreword

This document (CLC/TS 50459-3:2016) has been prepared by CLC/SC 9XA “Communication, signalling and processing systems”, of Technical Committee CLC/TC 9X “Electrical and electronic applications for railways”.

This document supersedes CLC/TS 50459-3:2005.

The main changes with respect to the previous edition are listed below:

- Update general principles for the presentation of non ETCS information correlated with ERA document ERA\_ERTMS\_015560.
- Update ergonomic arrangements with prEN 16186 series.

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

This Technical Specification has been prepared under mandates M/024 and M/334 given to CENELEC by the European Commission and the European Free Trade Association.

## Introduction

This Technical Specification should be read in conjunction with ERA\_ERTMS\_015560:2014 "ETCS Driver Machine Interface" and prEN 16186 series, "Railway applications — Driver's Cab".

This Technical Specification is Part 3 of a series with the following parts:

CLC/TS 50459-1 General principles for the presentation of ERTMS/ETCS/GSM-R information

CLC/TS 50459-2 Ergonomic arrangements of ERTMS/GSM-R information

CLC/TS 50459-3 Ergonomic arrangements of non ETCS information

This part of this Technical Specification contains the ergonomic arrangements of non ETCS information. Annex A of this part shows examples of existing NTC DMI layouts.

Annex B of this part lists the sound examples for NTC and other train functions (not exhaustive).

## 1 Scope

This Technical Specification describes from an ergonomic point of view how non ETCS information are arranged and displayed on the CCD. More specifically, it covers information that is not within the scope of ERA document ERA\_ERTMS\_015560.

This Technical Specification describes two possible technologies for implementing the ETCS DMI namely touch screen and soft key.

National systems not integrated within ETCS DMI are not within the scope of this specification.

Redundancy concepts are not within the scope of this document.

## 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.

prEN 16186-3:2014, *Railway applications — Driver's cab — Part 3: Design of displays*

CLC/TS 50459-1:2015, *Railways applications – Communication, signalling and processing systems – European Rail Traffic Management System – Driver-Machine Interface – Part 1: General principles for the presentation of ERTMS/ETCS/GSM-R information*

EUROPEAN RAILWAY AGENCY - ERTMS/ETCS - ETCS Driver Machine Interface - Reference: ERA\_ERTMS\_015560 - Version 3.4.0 - 2014-05-12

## 3 Terms, definitions and abbreviated terms

### 3.1 Terms and definitions

For the purposes of this document, the terms and definitions given in CLC/TS 50459-1 and the following apply.

#### 3.1.1

#### **ETCS DMI**

CCD that allows communication between ETCS on-board equipment and the driver

#### 3.1.2

#### **ETCS DMI default window**

total image display area with the allocation of objects, text messages and buttons as described in ERA ERTMS 015560 chapter 8 and 9

#### 3.1.3

#### **NTC default window**

a NTC default window is shown in NTC operation (Level NTC, modes SN or NL)

Note 1 to entry: The layout of a NTC default window may differ to an ETCS default window.



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