

	Dráhové aplikácie. Špecifikácia funkčného rozhrania. Systém dverí.	TNI CLC/TR 50623 34 2660
--	---	--

Táto technická normalizačná informácia obsahuje anglickú verziu CLC/TR 50623:2014.
This Technical standard information includes the English version of CLC/TR 50623:2014.

Táto technická normalizačná informácia bola oznámená vo Vestníku ÚNMS SR č. 10/14

119669

Úrad pre normalizáciu, metrológiu a skúšobníctvo SR, odbor SÚTN, 2014
Tento dokument a ani jeho časti sa nesmú rozmnožovať a rozširovať v akejkoľvek podobe
a akýmkoľvek prostriedkami bez písomného povolenia ÚNMS SR.

TECHNICAL REPORT

CLC/TR 50623

RAPPORT TECHNIQUE

TECHNISCHER BERICHT

June 2014

ICS 35.240.60; 45.060.20

English Version

Railway applications - Functional Interface Specification - Door System

Applications ferroviaires - Spécification d'interface
fonctionnelle - Système de porte

To be completed

This Technical Report was approved by CENELEC on 2014-06-02.

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, 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: Avenue Marnix 17, B-1000 Brussels

Contents

Foreword	4
1 Scope	5
2 Normative references	5
3 Terms, definitions and abbreviations	5
4 Doors reference architecture	6
5 Functional description	7
Annex A (informative) UML common definitions	19
A.1 Common Definitions	19
A.2 UML description	20
A.2.1 UML component diagram	20
A.2.2 UML deployment diagram	20
A.2.3 UML class diagram	22
Figures	
Figure 1 - Door reference architecture	6
Figure 2 - Door control unit reference model	8
Figure 3 - overall door control unit interfaces	9
Figure 4 - door system data types	9
Figure 5 - Door control and parametrisation interfaces	11
Figure 6 - Door diagnostics interfaces	16
Figure 7 - Door service model	18
Figure A.1 - rules for UML modeling	19
Figure A.2 - UML component diagram structure	20
Figure A.3 - UML deployment diagram structure	21
Figure A.4 - UML class diagram description	22
Figure A.5 - Common primitive types and constants	23
Figure A.6 - Common enumeration types	24
Figure A.7 - Common data types	25
Figure A.8 - Common standard interfaces for all systems	36
Figure A.9 - Common standard TCMS interface	37
Figure A.10 - Train configuration and data interfaces offered to all systems	38

Tables

Table 1 - Abbreviation table.....	6
Table 2 - Door system modes	10
Table 3 - Door control system interface attributes	12
Table 4 - Door control system interface operation commands.....	13
Table 5 - Door control system interface functional parameters.....	14
Table 6 - Door control system interface operation	15
Table 7 - Passenger signal functional interface	15
Table 8 - Door control system diagnostic attributes	16
Table 9 - Door control system diagnostic operation of the functional interface	17
Table A.1 - Class 1 attribute	22
Table A.2 - Class 1 operation	23
Table A.3 - UIC global data	27
Table A.4 - UIC vehicle data.....	28
Table A.5 - Passenger signals	28
Table A.6 - General System mode enumeration types	30
Table A.7 - Train operation mode enumeration types	31
Table A.8 - Train mode enumeration types	32
Table A.9 - Self test enumeration types	32
Table A.10 - Self test result enumeration types	32
Table A.11 - Train side enumeration types	33
Table A.12 - Result enumeration types	33
Table A.13 - distance.....	33
Table A.14 - train position.....	34
Table A.15 - train speed	35
Table A.16 - UTC time.....	35
Table A.17 - software version.....	35
Table A.18 - System diagnostics.....	39
Table A.19 - System identification attributes	40
Table A.20 - System identification operations	40
Table A.21 - Train lines functional interface	41
Table A.22 - General system mode functional interface - attributes	42
Table A.23 - General system mode functional interface - operations	42
Table A.24 - System service functional interface - operations	42
Table A.25 - TCMS status data	43
Table A.26 - Train configuration functional interface - attributes.....	43
Table A.27 - Train configuration functional interface - operations.....	44

Foreword

This document (CLC/TR 50623:2014) has been prepared by WG15 of CLC/TC 9X "Electrical and electronic applications for railways".

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 document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association.

1 Scope

This Technical Report is covering the whole external door system which includes also movable steps and ramps.

It describes the functional interfaces of door system connected at vehicle level to the TCMS. It includes the direct I/O interface to train-lines.

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.

EN 61131-3:2013, *Programmable controllers - Part 3: Programming languages (IEC 61131-3:2013)*

UIC 556, *Information transmission in the train (train-bus)*

UIC 558, *Remote control and data cable - Standard technical features for the equipping of RIC coaches*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN