

Commission Decision of 11 August 2006 concerning the technical specification of interoperability relating to the subsystem 'Traffic Operation and Management' of the trans-European conventional rail system (notified under document number C(2006) 3593) (Text with EEA relevance) (2006/920/EC) (repealed)

Article 1
Article 1a	Management of technical codes
Article 1b
Article 2
Article 3
Article 4
Article 5
Article 6

ANNEX

TECHNICAL SPECIFICATION FOR INTEROPERABILITY

TECHNICAL SPECIFICATION FOR INTEROPERABILITY RELATING TO THE SUBSYSTEM 'TRAFFIC OPERATION AND MANAGEMENT'

1. INTRODUCTION
 - 1.1. TECHNICAL SCOPE
 - 1.2. GEOGRAPHICAL SCOPE
2. DEFINITION OF SUBSYSTEM/SCOPE
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 - 3.2. ESSENTIAL REQUIREMENTS — OVERVIEW
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 - Essential requirement 1.1.5 of Annex III to Directive 2001/16/EC:
 - 3.3.2. RELIABILITY AND AVAILABILITY

Changes to legislation: There are currently no known outstanding effects for the Commission Decision of 11 August 2006 concerning the technical specification of interoperability relating to the subsystem 'Traffic Operation and Management' of the trans-European conventional rail system (notified under document number C(2006) 3593) (Text with EEA relevance) (2006/920/EC) (repealed). (See end of Document for details)

- Essential requirement 1.2 of Annex III to Directive 2001/16/EC
- 3.3.3. HEALTH
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 - Essential requirement 1.3.2 of Annex III to Directive 2001/16/EC:
- 3.3.4. ENVIRONMENTAL PROTECTION
 - Essential requirement 1.4.1 of Annex III to Directive 2001/16/EC:
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- 3.3.5. TECHNICAL COMPATIBILITY
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- 3.4. ASPECTS RELATING SPECIFICALLY TO THE TRAFFIC OPERATION AND MANAGEMENT SUBSYSTEM...
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 - 3.4.2. RELIABILITY AND AVAILABILITY
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- 4.2.2. SPECIFICATIONS RELATING TO TRAINS
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 - 4.2.2.4.1 Weight distribution
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 - 4.3.3.8. Train composition and annex B
 - 4.3.3.9. Freight Vehicle loading
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 - 4.3.3.11. Train composition, Annex L
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- 4.3.4. INTERFACES WITH THE TSI TELEMATIC APPLICATIONS
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 - 4.3.4.2. Train composition
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- 4.6. PROFESSIONAL QUALIFICATIONS
 - 4.6.1. PROFESSIONAL COMPETENCY
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 - 4.6.2.1. Principles
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 - 4.6.3.2.3.3. Auxiliary staff
- 4.7. HEALTH AND SAFETY CONDITIONS

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- 4.7.1. INTRODUCTION
- 4.7.2. CRITERIA FOR APPROVAL OF OCCUPATIONAL DOCTORS AND MEDICAL ORGANISATIONS
- 4.7.3. CRITERIA FOR APPROVAL OF PSYCHOLOGISTS INVOLVED IN PSYCHOLOGICAL ASSESSMENT AND...
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 - 4.7.4.1.1. Minimum content of the medical examination
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 - 4.7.6.1. Periodicity of periodic medical examinations
 - 4.7.6.2. Additional content of medical examination
 - 4.7.6.3. Additional vision requirements
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 - 4.7.6.5. Anthropometrics
 - 4.7.6.6. Trauma Counselling
- 4.8. INFRASTRUCTURE AND ROLLING STOCK REGISTERS
 - 4.8.1. INFRASTRUCTURE
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- 5. INTEROPERABILITY CONSTITUENTS
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 - 5.2. LIST OF CONSTITUENTS
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- 6. ASSESSMENT OF CONFORMITY AND/OR SUITABILITY FOR USE OF THE CONSTITUENTS...
 - 6.1. INTEROPERABILITY CONSTITUENTS
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 - 6.2.2. RULES AND PROCEDURES DOCUMENTATION
 - 6.2.3. ASSESSMENT PROCEDURE
 - 6.2.3.1. Decision by the Competent Authority
 - 6.2.3.2. If an assessment is required
 - 6.2.4. SYSTEM PERFORMANCE
- 7. IMPLEMENTATION
 - 7.1. PRINCIPLES
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Changes to legislation: There are currently no known outstanding effects for the Commission Decision of 11 August 2006 concerning the technical specification of interoperability relating to the subsystem 'Traffic Operation and Management' of the trans-European conventional rail system (notified under document number C(2006) 3593) (Text with EEA relevance) (2006/920/EC) (repealed). (See end of Document for details)

- 7.3. SPECIFIC CASES
 - 7.3.1. INTRODUCTION
 - 7.3.2. LIST OF SPECIFIC CASES

ANNEX A

ERTMS/ETCS AND ERTMS/GSM-R OPERATING RULES

ANNEX B

OTHER RULES ENABLING A COHERENT OPERATION OF NEW STRUCTURAL SUBSYSTEMS:

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- A. General
- B. Staff Safety and Security
- C. Operational interface with signalling and command and control equipment
 - C1 Sanding
 - C2 Activation of Hot Axle Box Detectors
- D. Train Movements
 - D1
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- E. Anomalies, incidents and accidents

ANNEX C

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- 1. COMMUNICATIONS METHODOLOGY
 - 1.1. ELEMENTS AND PRINCIPLES OF THE METHODOLOGY
 - 1.1.1. STANDARD TERMINOLOGY TO BE USED IN THE PROCEDURES
 - 1.1.1.1. Speech transmission procedure
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 - 1.1.1.3. Communications breaking procedure
 - 1.1.1.4. Cancelling a written order
 - 1.1.2. PRINCIPLES TO BE APPLIED IN THE EVENT OF ERROR OR...
 - 1.1.2.1. Errors
 - 1.1.2.2. Misunderstanding
 - 1.1.3. WORD, NUMBER, TIME, DISTANCE, SPEED AND DATE SPELLING CODE

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- 1.1.3.1. Spelling out of words and letter groups
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 - 1.2.2.2. Written Orders
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 - 1.2.2.2.2 Message receiving
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 - 1.2.2.2.4 Acknowledgement of correct read-back
 - 1.2.2.2.5 Acknowledgement
 - 1.2.2.2.6 Traceability and verification
 - 1.2.2.2.7 Reporting Back
 - 1.2.2.3. Additional messages
 - 1.2.2.4. Information messages with a variable non-predetermined content
- 2. PROCEDURAL MESSAGES
 - 2.1. NATURE OF THE MESSAGES
 - 2.2. FORMS
 - 2.3. BOOK OF FORMS
- 3. ADDITIONAL MESSAGES
 - 3.1. GUIDELINE STRUCTURE FOR MESSAGES
 - 3.2. GLOSSARY OF RAILWAY TERMINOLOGY
 - 3.3. DESCRIPTIVE DIAGRAM OF THE ROLLING STOCK
 - 3.4. DESCRIPTIVE STATEMENT OF THE CHARACTERISTICS OF THE INFRASTRUCTURE EQUIPMENT (TRACK,...
- 4. TYPE AND STRUCTURE OF VERBAL MESSAGES
 - 4.1. EMERGENCY MESSAGES
 - 4.2. MESSAGES SENT EITHER BY THE GROUND OR THE DRIVER
 - 4.3. MESSAGES ISSUED BY THE DRIVER

ANNEX D

INFORMATION TO WHICH THE RAILWAY UNDERTAKING MUST HAVE ACCESS
IN CONNECTION WITH THE ROUTE(S) OVER WHICH HE INTENDS TO OPERATE

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ANNEX E

LANGUAGE AND COMMUNICATION LEVEL

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ANNEX F:

TRAFFIC OPERATION AND MANAGEMENT
SUBSYSTEM ASSESSMENT GUIDELINES

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- 1. This annex sets out guidelines to facilitate assessments by Member...
- 2. The Infrastructure Manager or Railway Undertaking concerned must supply the...
- 3.
- 3.1. The documentation describing the operational process(es) concerned should contain at...
- 3.2. The Member State shall:
- 4. The assessment report shall include at least the following information:...

ANNEX G

INFORMATIVE AND NOT MANDATORY LIST OF ELEMENTS
TO BE VERIFIED FOR EACH BASIC PARAMETER

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ANNEX H

MINIMUM ELEMENTS RELEVANT TO PROFESSIONAL
QUALIFICATION FOR THE TASK OF DRIVING A TRAIN

- 1. General requirements
- 2. Professional knowledge
 - 2.1. General professional knowledge
 - 2.2. Knowledge of operational procedures and safety systems applied to the...
 - 2.3. Knowledge of rolling stock
- 3. Route knowledge
- 4. Ability to put the knowledge into practise

Changes to legislation: There are currently no known outstanding effects for the Commission Decision of 11 August 2006 concerning the technical specification of interoperability relating to the subsystem 'Traffic Operation and Management' of the trans-European conventional rail system (notified under document number C(2006) 3593) (Text with EEA relevance) (2006/920/EC) (repealed). (See end of Document for details)

- 4.1. Prepare for duty
- 4.2.
- 4.3. Take part in checking the operation of the brakes on...
- 4.4. Drive the train respecting the appropriate safety regulations, driving rules...
- 4.5.
- 4.6. Apply measures relating to operational incidents and accidents, particularly those...
- 4.7. Determine the conditions to continue to run after incidents affecting...
- 4.8.
- 4.9.
- 4.10. Report any unusual occurrences concerning the operation of the train,...

ANNEX I
NOT USED

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ANNEX J
MINIMUM ELEMENTS RELEVANT TO PROFESSIONAL QUALIFICATION
FOR THE TASKS ASSOCIATED WITH 'ACCOMPANYING TRAINS'

- 1. General requirements
- 2. Professional knowledge
 - 2.1. General professional knowledge
 - 2.2. Knowledge of operational procedures and safety systems applied to the...
 - 2.3. Knowledge of rolling stock
 - 2.4. Knowledge of the route
- 3. Ability to put the knowledge into practise

ANNEX K
NOT USED

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ANNEX L
MINIMUM ELEMENTS RELEVANT TO PROFESSIONAL
QUALIFICATION FOR THE TASK OF PREPARING TRAINS

- 1. General requirements
- 2. Professional knowledge
 - 2.1. General professional knowledge
 - 2.2. Knowledge of operational procedures and safety systems applied to the...
 - 2.3. Knowledge of train equipment

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3. Ability to put the knowledge into practise

ANNEX M
NOT USED

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ANNEX N
IMPLEMENTATION GUIDELINES

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ANNEX O
NOT USED

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ANNEX P
VEHICLE IDENTIFICATION

General remarks:

- 1.
- 2. The conformity of the number and linked marking with the...
- 3.
Standard number and linked abbreviations

Allocation of number

ANNEX P.1
KEEPER'S ABBREVIATION MARKING

Definition of the Vehicle Keeper Marking (VKM)

Format of the Vehicle Keeper Marking

Exemptions for using a Vehicle Keeper Marking

Provisions about allocation of Vehicle Keeper Markings

Register of Vehicle Keeper Markings and procedure for allocation

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ANNEX P.2

INSCRIPTION OF THE NUMBER AND LINKED ALPHABETICAL MARKING ON THE BODYWORK

General arrangements for external markings

Wagons

Coaches and hauled passenger stock

Locomotives, power cars and special vehicles

ANNEX P.3

RULES FOR THE DETERMINATION OF THE CHECK-DIGIT (DIGIT 12)

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1.
2.

ANNEX P.4

CODING OF THE COUNTRIES IN WHICH THE VEHICLES ARE REGISTERED (DIGITS 3-4 AND ABBREVIATION)

'Information relating to third countries given for information purposes only.' ...

ANNEX P.5

ALPHABETICAL MARKING OF THE INTEROPERABILITY CAPABILITY

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Notes:

ANNEX P.6

INTEROPERABILITY CODES USED FOR WAGONS (DIGITS 1-2).

ANNEX P.7

INTERNATIONAL TRAFFIC ABILITY CODES USED FOR HAULED PASSENGER VEHICLES (DIGITS 1-2)

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ANNEX P.8

TYPES OF TRACTIVE STOCK (DIGITS 1-2)

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ANNEX P.9

STANDARD NUMERICAL MARKING OF WAGONS (DIGITS 5 TO 7)

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ANNEX P.10

ANNEX P.11

CODES FOR THE TECHNICAL CHARACTERISTICS
OF THE SPECIAL VEHICLES (DIGIT 6 TO 8)

Authorised speed for special vehicles (digit 6)

Type and sub-type of special vehicle (digits 7-8)

ANNEX P.12

LETTER MARKING FOR WAGONS EXCLUDING
ARTICULATED AND MULTIPLE WAGONS

DEFINITION OF THE CATEGORY AND INDEX LETTERS

1. Important notes
2. Index letters with an international value common to all categories...
3. Index letters with an national value

CATEGORY LETTER: E — OPEN HIGH-SIDED WAGON

CATEGORY LETTER: F — OPEN HIGH-SIDED WAGON

CATEGORY LETTER: G — COVERED WAGON

CATEGORY LETTER: H — COVERED WAGON

CATEGORY LETTER: I — TEMPERATURE-CONTROLLED WAGON

CATEGORY LETTER: K — 2-AXLE FLAT WAGON

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CATEGORY LETTER: L — 2-AXLE FLAT WAGON

CATEGORY LETTER: O — MIXED FLAT AND OPEN HIGH-SIDED WAGON...

CATEGORY LETTER: R — FLAT BOGIES WAGON

CATEGORY LETTER: S — FLAT BOGIES WAGON

CATEGORY LETTER: T — WAGON WITH OPENING ROOF

CATEGORY LETTER: U — SPECIAL WAGONS

CATEGORY LETTER: Z — TANK WAGON

LETTER MARKING FOR WAGONS FOR VARIOUS INDEXED ITEMS

1. Important notes
2. Index letters with an international value common to all categories...
3. Index letters with a national value

CATEGORY LETTER: F — OPEN HIGH-SIDED WAGON

CATEGORY LETTER: H — COVERED WAGON

CATEGORY LETTER: I — TEMPERATURE CONTROLLED WAGON

CATEGORY LETTER: L — FLAT WAGON WITH SEPARATE AXLES

CATEGORY LETTER: S — FLAT BOGIE WAGON

CATEGORY LETTER: T — WAGON WITH OPENING ROOF

CATEGORY LETTER: U — SPECIAL WAGONS

CATEGORY LETTER: Z — TANK WAGON

ANNEX P.13

LETTER MARKING FOR HAULED PASSENGER STOCK

Serial letters with an international value:

Index letters with an international value:

Serial letters and index letters with a national value

ANNEX P.14

Letter marking for special vehicles

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ANNEX Q
NOT USED

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ANNEX R
TRAIN IDENTIFICATION

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ANNEX S:
TRAIN VISIBILITY — REAR END

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ANNEX T

BRAKING PERFORMANCE
IM's role
RU's role
Braking performance not achieved

ANNEX U

LIST OF OPEN POINTS

Section 4.2.2 —

Train Composition Document

ANNEX V

PREPARATION AND UPDATING RULES DOCUMENTATION FOR DRIVERS

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GLOSSARY

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