



COMMISSION OF THE EUROPEAN COMMUNITIES

Brussels, 23/IV/2008  
C (2008) 1565 final

**COMMISSION DECISION**

**of 23/IV/2008**

**modifying Annex A to Decision 2006/679/EC of 28 March 2006 concerning the technical specification for interoperability relating to the control-command and signalling subsystem of the trans-European conventional rail system and Annex A to Decision 2006/860/EC of 7 November 2006 concerning the technical specification for interoperability relating to the control-command and signalling subsystem of the trans-European high speed rail system.**

**(Text with EEA relevance)**

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(Text with EEA relevance)

THE COMMISSION OF THE EUROPEAN COMMUNITIES,

Having regard to the Treaty establishing the European Community,

Having regard to Council Directive 96/48/EC of 23 July 1996 on the interoperability of the trans-European high-speed rail system<sup>1</sup>, and in particular Article 6(1) thereof,

Having regard to Directive 2001/16/EC of 19 March 2001 of the European Parliament and of the Council on the interoperability of the conventional rail system<sup>2</sup>, and in particular Article 6(1) thereof,

Whereas:

- (1) Commission Decision 2006/679/EC<sup>3</sup> laid down the first technical specification (“TSI”) for interoperability relating to the control-command and signalling subsystem of the trans-European conventional rail system;
- (2) Commission Decision 2002/731/EC<sup>4</sup> laid down the first technical specification (“TSI”) for interoperability relating to the control-command and signalling subsystem of the trans-European High Speed rail system; it was repealed and replaced by Commission Decision 2006/860/EC<sup>5</sup>.
- (3) Commission Decision 2007/153/EC<sup>6</sup> adapted Annex A to Decisions 2006/679/EC and 2006/860/EC to technical progress.

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<sup>1</sup>OJ L 235, 17.9.1996, p. 6; Directive as amended by Directive 2004/50/EC (OJ L 164, 30.4.2004, p. 114, corrected by OJ L 220, 21.6.2004, p. 40).

<sup>2</sup>OJ L 110, 20.4.2001, p. 1; Directive as amended by Directive 2004/50/EC (OJ L 164, 30.4.2004, p. 114).

<sup>3</sup>OJ L 284, 16.10.2006, p. 1. Decision as last amended by Decision 2007/153/EC (OJ L 67, 07.3.2007, p.13)

<sup>4</sup>OJ L 245, 12.09.2002, p. 37. Decision as amended by Decision 2004/447/EC (OJ L 155, 30.4.2004, p. 65, corrected by OJ L 193, 1.6.2004, p. 53)

<sup>5</sup>OJ L 342, 07.12.2006, p. 1.

<sup>6</sup>OJ L 67, 07.03.2007, p. 67.

- (4) With a view to take account of the agreement reached within the working groups of the European Railway Agency on the subset 108, there is a need to update Annex A.
- (5) In accordance with Article 6.2. of Directive 96/48/EC and Article 6.2 of Directive 2001/16/EC, the Agency shall be responsible for preparing the review and updating of TSIs and making any recommendations to the Committee referred to in Article 21 in order to take account of developments in technology or social requirements;
- (6) In accordance with Article 12 of Regulation EC No 881/2004<sup>7</sup> from the European Parliament and from the Council, the European Rail Agency shall ensure that the TSIs are adapted to technical progress and market trends and to the social requirements and propose to the Commission the amendments to the TSIs which it considers necessary;
- (7) The European Railway Agency adopted on 14.01.2008 a recommendation regarding the list of mandatory specifications and the list of informative specifications set out in the TSIs for the conventional rail and the high speed rail systems;
- (8) The measures provided for in this Decision are in accordance with the opinion of the Committee set up by Article 21 of Council Directive 96/48/EC,

HAS ADOPTED THIS DECISION:

#### *Article 1*

The list of mandatory specifications and the list of informative specifications set out in Annex A to the TSI attached to Commission Decision 2006/679/EC of 28 March 2006 relating to the control-command and signalling subsystem of the trans-European conventional rail system and Annex A to the TSI attached to Commission Decision 2006/860/EC of 7 November 2006 relating to the control-command and signalling subsystem of the trans-European high speed rail system, are replaced by the list of mandatory specifications and the list of informative specifications attached to the present Decision.

#### *Article 2*

Before 31.12.2008, the European Train Control System ("ETCS") specifications attached to the present Decision will be completed to include updated common test specifications and to correct any errors.

#### *Article 3*

Before 31.12.2008, and without prejudice to Article 7 of Directive 96/48/EC and Article 7 of Directive 2001/16/EC, Member States shall notify to the Commission which of their lines equipped with ETCS operate, or will operate, with the mandatory specifications applicable prior to the entry into force of the present Decision.

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<sup>7</sup> OJ L 220, 21.06.2004, p. 3.

By the same date, Member States shall also notify to the Commission the time by which trains compliant with the specifications referred to in this Decision can operate on each of their ETCS lines.

*Article 4*

This Decision shall apply from 01/VI/2008.

*Article 5*

This Decision is addressed to the Member States.

Done at Brussels, 23/IV/2008.

*For the Commission*  
*Jacques BARROT*  
*Vice-President of the Commission*



## ANNEX

LIST OF MANDATORY SPECIFICATIONS
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Index N	Reference	Document Name	Version
1	ERA/ERTMS/003204	ERTMS/ETCS Functional Requirement Specification	5.0
2		intentionally deleted	
3	UNISIG SUBSET-023	Glossary of Terms and Abbreviations	2.0.0
4	UNISIG SUBSET-026	System Requirement Specification	2.3.0
5	UNISIG SUBSET-027	FFFIS Juridical Recorder-Downloading Tool	2.2.9
6	UNISIG SUBSET-033	FIS for Man-Machine Interface	2.0.0
7	UNISIG SUBSET-034	FIS for the Train Interface	2.0.0
8	UNISIG SUBSET-035	Specific Transmission Module FFFIS	2.1.1
9	UNISIG SUBSET-036	FFFIS for Eurobalise	2.4.1
10	UNISIG SUBSET-037	Euroradio FIS	2.3.0
11	Reserved 05E537	Off line key management FIS	
12	UNISIG SUBSET-039	FIS for the RBC/RBC Handover	2.1.2
13	UNISIG SUBSET-040	Dimensioning and Engineering rules	2.0.0
14	UNISIG SUBSET-041	Performance Requirements for Interoperability	2.1.0
15	ERA SUBSET-108	Interoperability-related consolidation on TSI annex A documents	1.2.0

Index N	Reference	Document Name	Version
16	UNISIG SUBSET-044	FFFIS for Euroloop sub-system	2.2.0
17	Intentionally Deleted		
18	UNISIG SUBSET-046	Radio In-fill FFFS	2.0.0
19	UNISIG SUBSET-047	Track-side-Trainborne FIS for Radio In-Fill	2.0.0
20	UNISIG SUBSET-048	Trainborne FFFIS for Radio In-Fill	2.0.0
21	UNISIG SUBSET-049	Radio In-fill FIS with LEU/Interlocking	2.0.0
22	Intentionally deleted		
23	UNISIG SUBSET-054	Assignment of Values to ETCS variables	2.0.0
24	Intentionally deleted		
25	UNISIG SUBSET-056	STM FFFIS Safe Time Layer	2.2.0
26	UNISIG SUBSET-057	STM FFFIS Safe Link Layer	2.2.0
27	UNISIG SUBSET-091	Safety Requirements for the Technical Interoperability of ETCS in Levels 1 & 2	2.2.11
28	Reserved	Reliability – Availability Requirements	
29	UNISIG SUBSET-102	Test specification for Interface “k”	1.0.0
30	Intentionally deleted		
31	UNISIG SUBSET-094	UNISIG Functional Requirements for an On-board Reference Test Facility	2.0.0
32	EIRENE FRS	GSM-R Functional Requirements Specification	7
33	EIRENE SRS	GSM-R System Requirements Specification	15
34	A11T6001 12	(MORANE) Radio Transmission FFFIS for	12

Index N	Reference	Document Name	Version
		EuroRadio	
35	ECC/DC(02)05	ECC Decision of 5 July 2002 on the designation and availability of frequency bands for railway purposes in the 876-880 and 921-925 MHz bands.	
36a	Intentionally deleted		
36b	Intentionally deleted		
36c	UNISIG SUBSET-074-2	FFFIS STM Test cases document	1.0.0
37a	Intentionally deleted		
37b	UNISIG SUBSET-076-5-2	Test cases related to features	2.2.2
37c	UNISIG SUBSET-076-6-3	Test sequences	2.0.0
37d	UNISIG SUBSET-076-7	Scope of the test specifications	1.0.0
37e	Intentionally deleted		
38	06E068	ETCS marker board definition	1.0
39	UNISIG SUBSET-092-1	ERTMS EuroRadio Conformance Requirements	2.2.5
40	UNISIG SUBSET-092-2	ERTMS EuroRadio Test cases Safety Layer	2.2.5
41	Reserved UNISIG SUBSET 028	JRU Test Specification	
42	Intentionally deleted		
43	UNISIG SUBSET 085	Test Specification for Eurobalise FFFIS	2.2.2
44	Reserved	Odometry FIS	

Index N	Reference	Document Name	Version
45	UNISIG SUBSET-101	Interface “K” Specification	1.0.0
46	UNISIG SUBSET-100	Interface “G” specification	1.0.1
47	Reserved	Safety Requirements and Requirements to Safety Analysis for Interoperability for the Control-Command and Signalling Sub-System	
48	Reserved	Test specification for mobile equipment GSM-R	
49	UNISIG SUBSET-059	Performance requirements for STM	2.1.1
50	Reserved UNISIG SUBSET-103	Test specification for EUROLOOP	
51	Reserved	Ergonomic aspects of the DMI	
52	UNISIG SUBSET-058	FFFIS STM Application Layer	2.1.1
53	Reserved AEIF-ETCS-Variables-Manual	AEIF-ETCS-Variables-Manual	
54	Intentionally deleted		
55	Reserved	Juridical recorder baseline requirements	
56	Reserved 05E538	ERTMS Key Management Conformance Requirements	
57	Reserved UNISIG SUBSET-107	Requirements on pre-fitting of ERTMS on-board equipment	
58	UNISIG SUBSET-097	Requirements for RBC-RBC Safe Communication Interface	1.1.0

Index N	Reference	Document Name	Version
59	Reserved UNISIG SUBSET-105	Requirements on pre-fitting of ERTMS track side equipment	
60	Reserved UNISIG SUBSET-104	ETCS version management	
61	Reserved	GSM-R version management	
62	Reserved UNISIG SUBSET-099	RBC-RBC Test specification for Safe Communication Interface	
63	UNISIG SUBSET-098	RBC-RBC Safe Communication Interface	1.0.0

LIST OF INFORMATIVE SPECIFICATIONS
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Index N	Reference	Document Name	Version	Type
B1	EEIG 02S126	RAM requirements (chapter 2 only)	6	2 (index 28)
B2	EEIG 97S066	Environmental conditions	5	2 (index A5)
B3	UNISIG SUBSET-074-1	Methodology for testing FFFIS STM	1.0.0	2 (index 36)
B4	EEIG 97 <sup>E</sup> 267	ODOMETER FFFIS	5	1 (Index 44)
B5	O_2475	ERTMS GSM-R QoS Test Specification	1.0.0	2
B6	UNISIG SUBSET-038	Off-line Key Management FIS	2.1.9	1 (index 11)
B7	UNISIG SUBSET-074-3	FFFIS STM test specification traceability of test cases with Specific Transmission Module FFFIS	1.0.0	2 (Index 36)
B8	UNISIG SUBSET-074-4	FFFIS STM Test Specification Traceability of testing the packets specified in the FFFIS STM Application Layer	1.0.0	2 (Index 36)
B9	UNISIG SUBSET	ERTMS/ETCS Class 1, Test plan	2.2.3	2 (Index 37)

Index N	Reference	Document Name	Version	Type
	076-0			
B10	UNISIG SUBSET 076-2	Methodology to prepare features	2.2.1	2 (Index 37)
B11	UNISIG SUBSET 076-3	Methodology of testing	2.2.1	2 (Index 37)
B12	UNISIG SUBSET 076-4-1	Test sequence generation: Methodology and Rules	1.0.0	2 (Index 37)
B13	UNISIG SUBSET 076-4-2	ERTMS ETCS Class 1 States for Test Sequences	1.0.0	2 (Index 37)
B14	UNISIG SUBSET 076-5-3	On-Board Data Dictionary	2.2.0	2 (Index 37)
B15	UNISIG SUBSET 076-5-4	SRS v.2.2.2 Traceability	2.2.2	2 (Index 37)
B16	UNISIG SUBSET 076-6-1	UNISIG test data base	2.2.2.	2 (Index 37)
B17	UNISIG SUBSET 076-6-4	Test Cases Coverage	2.0.0	2 (Index 37)
B18	Intentionally deleted			
B19	UNISIG SUBSET 077	UNISIG Causal Analysis Process	2.2.2	2 (Index 27)
B20	UNISIG SUBSET 078	RBC interface: Failure modes and effects analysis	2.2.2	2 (Index 27)
B21	UNISIG SUBSET 079	MMI: Failure Modes and Effects Analysis	2.2.2	2 (Index 27)
B22	UNISIG SUBSET 080	TIU: Failure Modes and Effects Analysis	2.2.2	2 (Index 27)
B23	UNISIG SUBSET 081	Transmission system: Failure Modes and Effects Analysis	2.2.2	2 (Index 27)
B24	UNISIG SUBSET 088	ETCS Application Levels 1&2 -Safety Analysis	2.2.10	2 (Index 27)
B25	TS50459-1	Railway applications -European Rail Traffic Management System - Driver Machine Interface" part 1 - Ergonomic principles of ERTMS/ETCS/GSM-R Information	2005	2 (Index 51)

Index N	Reference	Document Name	Version	Type
B26	TS50459-2	Railway applications – Communication, signalling and processing systems -European Rail Traffic Management System - Driver Machine Interface" part 2 - Ergonomic arrangements of ERTMS/ETCS Information	2005	2 (Index 51)
B27	TS50459-3	Railway applications – Communication, signalling and processing systems -European Rail Traffic Management System - Driver Machine Interface" part 3 - Ergonomic arrangements of ERTMS/GSM-R Information	2005	2 (Index 51)
B28	TS50459-4	Railway applications – Communication, signalling and processing systems -European Rail Traffic Management System - Driver Machine Interface" part 4 - Data entry for the ERTMS/ETCS/GSM-R systems	2005	2 (Index 51)
B29	TS50459-5	Railway applications – Communication, signalling and processing systems -European Rail Traffic Management System - Driver Machine Interface" part 5 – Symbols	2005	2 (Index 51)
B30	TS50459-6	Railway applications – Communication, signalling and processing systems -European Rail Traffic Management System - Driver Machine Interface" part 6 – Audible Information	2005	2 (Index 51)
B31	Reserved EN50xxx	Railway applications -European Rail Traffic Management System - Driver Machine Interface" part 7 - Specific Transmission Modules		2 (Index 51)
B32	Reserved	Guideline for references		None
B33	EN 301 515	Global System for Mobile communication (GSM); Requirements for GSM operation in railways.	2.1.0	2 (Index 32, 33)
B34	06E225	Operational DMI information	1	1 (Index 51)
B35	Reserved UNISIG SUBSET-069	ERTMS Key Management Conformance Requirements		1 (Index 56)
B36	04E117	ETCS/GSM-R Quality of Service user	1	2 (Index 32)

Index N	Reference	Document Name	Version	Type
		requirements - Operational Analysis		
B37	UNISIG SUBSET-093	GSM-R Interfaces – Class 1 requirements	2.3.0	1 (Index 32, 33)
B38	UNISIG SUBSET-107A	Requirements on pre-fitting of ERTMS on-board equipment	1.0.0	2 (Index 57)
B39	UNISIG SUBSET-076-5-1	ERTMS ETCS Class 1 Feature List	2.2.2	2 (Index 37)
B40	UNISIG SUBSET-076-6-7	Test Sequences Evaluation and Validation	1.0.0	2 (Index 37)
B41	UNISIG SUBSET-076-6-8	Generic train data for test Sequences	1.0.0	2 (Index 37)
B42	UNISIG SUBSET-076-6-10	Test Sequence Viewer (TSV)	2.10	2 (Index 37)
B43	04E083	Safety Requirements and Requirements to Safety Analysis for Interoperability for the Control-Command and Signalling Sub-System	1.0	1 (index 47)
B44	04E084	Justification Report for the Safety Requirements and Requirements to Safety Analysis for Interoperability for the Control-Command and Signalling Sub-System.	1.0	2 (index B43)
B45	ERA/ERTMS/003205	Traceability Of Changes To ETCS FRS	0.1	2 (index 1)