

OPINION

ERA/OPI/2015-6

OF THE EUROPEAN RAILWAY AGENCY

REGARDING

*Mandatory specifications referred to in Table A2 of Annex A to
Decision 2012-88-EU (CCS TSI)*

Disclaimer:

The present document is a non-legally binding opinion of the European Railway Agency. It does not represent the view of other EU institutions and bodies, and is without prejudice to the decision-making processes foreseen by the applicable EU legislation. Furthermore, a binding interpretation of EU law is the sole competence of the Court of Justice of the European Union.

1. General Context

Commission Decision (EU) 2015/14 of 5 January 2015 amending Decision 2012/88/EU on the technical specification for interoperability relating to the control-command and signalling subsystems of the trans-European rail system¹ ("the Decision") amends Commission Decision 2012/88/EU of 25 January 2012 on the Technical Specifications for Interoperability related to the Control Command and Signalling subsystems² to extend their scope to the entire rail system of the Union; at the same time it introduces the updated ERTMS/ETCS specifications, so called "ETCS Baseline 3 Maintenance Release 1" ("the B3 MR1") as defined in Annex A to the Decision.

The updated specifications define the functional, safety and performance requirements for the ERTMS/ETCS; the corresponding test requirements documents are indicated as "reserved" in the Annex A table A2.

The development of those test requirements was intended to be carried out based on the agreed functional, safety and performance requirements.

Those test requirements were planned to be made available by July 2015, at the same time as the application date of the Decision; in this manner all the technical specifications for the development, testing certification and authorization of ERTMS/ETCS on-board constituents B3 MR1 will be available.

2. Legal Background

Article 2 of the Decision amends art 7a of the Decision 2012/88 to require: *"By 1st July 2015 the European Railway Agency shall publish the mandatory specifications referred to in table A2 of Annex A to this Decision, at Index 37b and 37c, column "Set of specifications #2". Before their publication, it shall send to the Commission a technical opinion on the inserting of these documents in table A2 with reference, name and version"*

3. Analysis

- › The European Railway Agency has overseen the activities of a working group composed by laboratories accredited to perform ERTMS/ETCS tests according to the requirements of the TSI chapter 6 and of a Notified Body. This working group has drafted the test specifications for ETCS, including the "test cases" and "test sequences" corresponding to the reserved documents referenced in Index 37b and 37c in the table A2.
- › The test cases have been developed based on the System Requirement Specifications version 3.4.0 (Index 04 in the table A2). They have been reviewed by experts of UNIFE/UNISISIG.
- › The test sequences have been developed and validated by the use of experts check and a software tool ("the TSD") which has been consistently used for the development of ETCS test specifications since 2008.
- › The test sequences have not been fully validated by a test campaign in an accredited laboratory, due to the fact that no ERTMS/ETCS on-board constituent compliant with the ETCS B3 MR1 was made available for this purpose. Nevertheless, about 25% of the test sequences have been validated with an ERTMS/ETCS on-board constituent implementing the System Requirement Specifications version 3.3.0.

¹ OJ L3, 7.1.2015, p. 44.

² OJ L 191, 18.7.2008, p. 1.



- › The methodology used to develop the test specification is proven and has been used since 2004 (Decision 2004-447-EC). The test specifications for ERTMS/ETCS Baseline 2 currently in force have been developed by the same actors in the working group.
- › The test cases and test sequences are traced back to requisite expressed in the SRS document (Table A2 index 4). The scope, use and guide to assess the test results are available in a set of accompanying documents which will be referenced in the corresponding Application Guide.
- › The index 37d Subset-076-7 is linked to the Index 37b and 37c because it provides the scope of use of the test cases and test sequences to test ERTMS/ETCS on-board constituents. Though not addressed by the Table A2 Note 11, the Index 37d shall be amended according to reflect the modifications introduced by this opinion in the test cases and test sequences.

3. The Opinion

On the basis of the analysis, the opinion of the Agency is:

That the test specifications documents referenced in Index 37b, 37c and 37d of Annex A to the Decision 2012/88/EU are available and ready to be inserted in the set of mandatory specifications.

That in the table A2, the Index 37b, 37c and 37d and the Note 11 should be amended as follows:

Index N	Set of specifications # 1 (ETCS baseline 2 and GSM-R baseline 0)				Set of specifications # 2 (ETCS baseline 3 and GSM-R baseline 0)			
	Reference	Name of Specification	Version	Notes	Reference	Name of Specification	Version	Notes
37 b	SUBSET-076-5-2	Test cases related to features	2.3.3		SUBSET-076-5-2	Test cases related to features	3.1.0	Note 11
37 c	SUBSET-076-6-3	Test sequences	2.3.3		SUBSET-076-6-3	Test sequences	3.0.0	Note 11
37 d	SUBSET-076-7	Scope of the test specifications	1.0.2		SUBSET-076-7	Scope of the test specifications	3.1.0	Note 11

Note 11: Specifications updated through Technical Opinion of the European Railway Agency ERA/OPI/2015-6. Reference to these specifications will be published in the next update of TSI CCS Application Guide.

Valenciennes on 16.06. 2015,

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