

ERA INTEROPERABILITY UNIT
OMNIBUS AMENDMENT OF TSIS 2011

INTEROPERABILITY UNIT	
OMNIBUS AMENDMENT OF TSIS 2011	
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The following document has been produced by the European Railway Agency as Final Report on the issues raised in paragraph 2.2 of the Annex of the Framework Mandate 2007.

This document is intended to inform the Committee established by Art. 29 of Directive 2008/57/EC on the work carried out. This document is the basis for the Agency Recommendation on the omnibus amendment of TSIs (ERA/REC/07-2011/INT).

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AMENDMENT RECORD

Version	Date	Section number	Modification/description	Author
1.00	08 Sep 2011	All	Final report accompanying the Agency Recommendation	FA

EXECUTIVE SUMMARY

Legal basis Article 12 of [2] the Agency Regulation states that *“the Agency shall... propose to the Commission amendments to the TSIs which it considers necessary”*.

Article 7 of [1] the Interoperability Directive and Section 2.2 of the Annex of [3] the Framework Mandate 2007 indicate the way to deal with the deficiencies in the TSIs.

In April 2011, the Agency received a note of the European Commission Services requesting a *“recommendation concerning the updating and correction of TSIs in view of the RIS Committee meeting of October 2011”*.

Proposed amendments Several deficiencies in the TSIs in force have been detected. Correction of these deficiencies is included in this Omnibus recommendation. The TSIs that need correction are the following:

- [11] CR WAG (Dec 2006/861/EC amended by Dec 2009/107/EC)
- [14] HS&CR SRT (Dec 2008/163/EC amended by Dec 2011/291/EU)
- [15] HS&CR PRM (Dec 2008/164/EC)
- [16] HS INF (Dec 2008/217/EC)
- [18] HS RST (Dec 2008/232/EC)
- [19] HS ENE (Dec 2008/284/EC)
- [24] CR INF (Dec 2011/275/EU)

In addition, for avoiding duplication of requirements with the draft decisions on ERATV and RINF, and following the principle of Annex 3 of [28] RINF Recommendation (ERA/REC/04-2011/INT), this Omnibus Recommendation includes amendments to the TSIs that were adopted after the submission of the RINF Recommendation to the Commission, namely:

- [20] RST Noise (Dec 2011/229/EU)
- [23] CR ENE (Dec 2011/274/EU)
- [24] CR INF (Dec 2011/275/EU)
- [25] CR LOC&PAS (Dec 2011/291/EU)

Altogether, this recommendation includes amendments to ten TSIs (CR INF is on both lists above).

These amendments should be taken into account together with the ones included in Annex 3 of [28] RINF Recommendation (ERA/REC/04-2011/INT).

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1. INTRODUCTION

1.1. SCOPE OF THE REPORT

This report is intended to inform the European Commission and the RISC on the work carried for the recommendation on the Omnibus amendment of TSIs (ERA/REC/07-2011/INT).

1.2. LEGAL BASIS

Article 12 of [2] the Agency Regulation states that *“the Agency shall... propose to the Commission amendments to the TSIs which it considers necessary”*.

Article 7 of [1] the Interoperability Directive and Section 2.2 of the Annex of [3] the Framework Mandate indicate the way to deal with the deficiencies in the TSIs.

In April 2011, the Agency received a note of the European Commission Services requesting a *“recommendation concerning the updating and correction of TSIs in view of the RIS Committee meeting of October 2011”*.

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2. REFERENCE DOCUMENTS

Table 1 : Reference documents

Ref.	Document Reference	Official Journal	Last Modification/ Amendment	Version
[1]	Directive 2008/57/EC of the European Parliament and of the Council of 17 June 2008 on the interoperability of the rail system within the Community	L 191, 18.7.2008	Directive 2011/18/EU L 57, 2.3.2011	--
[2]	Regulation (EC) No 881/2004 of the European Parliament and of the Council of 29 April 2004 establishing a European Railway Agency	L 220, 21.6.2004	Regulation (EC) No 1335/2008 of the European Parliament and of the Council L 354, 31.12.2008	--
[3]	Commission Decision of 13 July 2007 framework mandate to ERA	NA	--	C(2007) 3374 final
[4]	Commission Decision 2002/731/EC of 30 May 2002 TSI CCS HS rail system	L 245, 12.9.2002	Decision 2006/860/EC (repeal) L 342, 7.12.2006	--
[5]	Commission Decision 2002/732/EC of 30 May 2002 TSI INF HS rail system	L 245, 12.9.2002	Decision 2008/232/EC (repeal) L 84, 26.3.2008	--
[6]	Commission Decision 2002/733/EC of 30 May 2002 TSI ENE HS rail system	L 245, 12.9.2002	Decision 2008/284/EC (repeal) L 104, 14.4.2008	--
[7]	Commission Decision 2002/735/EC of 30 May 2002 TSI RST HS rail system	L 245, 12.9.2002	Decision 2008/232/EC (repeal) L 84, 26.3.2008	--
[8]	Commission Decision 2006/66/EC TSI "Rolling stock – noise"	L 37, 08.02.2006	Decision 2011/229/EU (repeal) L 99, 13.4.2011	--
[9]	Commission Decision 2006/679/EC TSI CCS CR rail system	L 284, 16.10.2006	Decision 2010/79/EC L 37, 10.2.2010	--
[10]	Commission Decision 2006/860/EC TSI CCS HS rail system	L 342, 7.12.2006	Decision 2010/79/EC L 37, 10.2.2010	--
[11]	Commission Decision 2006/861/EC TSI WAG CR rail system	L 344, 8.12.2006	Decision 2009/107/EC L 45, 14.2.2009	--
[12]	Commission Decision 2006/920/EC TSI OPE CR rail system	L 359, 18.12.2006	Decision 2011/314/EU L 144, 31.5.2011	--
[13]	Regulation 62/2006/EC TSI TAF	L 13, 18.01.2006	--	--
[14]	Commission Decision 2008/163/EC TSI SRT HS and CR rail system	L 64, 7.3.2008	Decision 2011/291/EU L 139, 26.5.2011	--

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Table 1 : Reference documents

Ref.	Document Reference	Official Journal	Last Modification/ Amendment	Version
[15]	Commission Decision 2008/164/EC TSI PRM HS and CR rail system	L 64, 7.3.2008	--	--
[16]	Commission Decision 2008/217/EC TSI INF HS rail system	L 77, 19.3.2008	--	--
[17]	Commission Decision 2008/231/EC TSI OPE HS rail system	L 84, 26.3.2008	Decision 2010/640/EU L 280, 26.10.2010	--
[18]	Commission Decision 2008/232/EC TSI RST HS rail system	L 84, 26.3.2008	--	--
[19]	Commission Decision 2008/284/EC TSI ENE HS rail system	L 104, 14.4.2008	--	--
[20]	Commission Decision 2011/229/EU TSI 'RST – noise' CR rail system	L 99, 13.4.2011	--	--
[21]	Commission Decision 2011/314/EU TSI OPE CR rail system	L 144, 31.5.2011	--	--
[22]	Commission Regulation (EU) No 454/2011 TSI TAP	L 123, 12.5.2011	--	--
[23]	Commission Decision 2011/274/EU TSI ENE CR rail system	L 126, 14.5.2011	--	--
[24]	Commission Decision 2011/275/EU TSI INF CR rail system	L 126, 14.5.2011	--	--
[25]	Commission Decision 2011/291/EU TSI LOC&PAS CR rail system	L 139, 26.5.2011	--	--
[26]	Draft Commission Decision on RINF	NA	--	08/57-DV49 EN02
[27]	Draft Commission Decision on ERATV	NA	--	08/57-DV48 EN02
[28]	ERA Recommendation ERA/REC/04- 2011/INT on Specification of the Register of Infrastructure and Procedure demonstrating the level of compliance with the basic parameters of Technical Specifications for Interoperability for existing lines and Amendments to technical specifications for interoperability	NA	--	1.0
[29]	List of deficiencies in TSIs	NA	16.02.2011	1/2011

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Table 1 : Reference documents

Ref.	Document Reference	Official Journal	Last Modification/ Amendment	Version
[30]	TO Interop/JCP2008/ of 11/02/2008 on Critical errors in Wagon TSI as addressed by UK	NA	--	1
[31]	TO "Interop/JCP/HLA/2008/087" of 23/05/2008 on request from Germany for amendment of the HS RST TSI: 2008 concerning the requirements for warning horns	NA	--	Final – rev 1
[32]	TO "Interop/JCP/HLA/2008/162" of 19/09/2008 on UNIFE request for transition rules to be applied to class 2 rolling stock of an existing design in scope of HS RST TSI:2008	NA	--	Final – rev 2
[33]	TO IU-WAG-TO3 of 19/10/2009 Several aspects WAG TSI and Noise TSI (Notified by DE)	NA	--	1.0
[34]	TO ERA/ADV/02-2009/INT of 1/12/2009 Notification from France of critical error in the SRT TSI	NA	--	1
[35]	TO IU-WAG-100211-TO of 11/02/2010 on an error in Wagon TSI related to the load limits	NA	--	1.0
[36]	TO ERA/OPI/2010-17/INT of 28/09/2010 Parking brake performance	NA	--	1
[37]	TO ERA/OPI/2010-18/INT of 27/09/2010 on Draw gear, dynamic test	NA	--	1
[38]	TO ERA/OPI/2011-03/INT of 18/03/2011 on Symbol for inductive loop systems	NA	--	0
[39]	TO ERA/OPI/2011-07/INT of 25/05/2011 regarding requirements for interoperability constituent rail concerning equivalent conicity	NA	--	0.2
[40]	TO ERA/OPI/2011-10/INT of 17/05/2011 Safe access and egress for rolling stock - steps and handrails	NA	--	FINAL
[41]	TO ERA/OPI/2011-12/INT of 13/05/2011 Electrical resistance of rail fastening system	NA	--	1.0

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Table 1 : Reference documents

Ref.	Document Reference	Official Journal	Last Modification/ Amendment	Version
[42]	TD ERA/TD/2009-03/INT of 24/06/2009 Additional specifications applicable to the draw gear	NA	--	1

3. ABBREVIATIONS

Table 2: Abbreviations

ABBREVIATION	FULL TEXT
CCS	Command Control and Signalling
CR	Conventional Rail
ENE	Energy
ERA	European Railway Agency
ERATV	European Register of Authorised Types of Vehicle
HS	High Speed
LOC & PAS	Locomotives and passenger rolling stock
OPE	Operation and traffic management
PRM	Persons with Reduced Mobility
RINF	Register of Infrastructure
RISC	Railway Interoperability and Safety Committee
RST	Rolling Stock
SRT	Safety in Railway Tunnels
TAF	Telematic Applications for Freight services
TAP	Telematic Applications for Passenger services
TD	Technical Document
TO	Technical Opinion
TSI	Technical Specification for Interoperability
WAG	Freight wagons
WP	Working Party

4. WORKING METHOD

The list of amendments have been prepared on the basis of

- a) the technical opinions delivered by ERA,
- b) list of deficiencies in the TSIs maintained by ERA and published on the ERA website and
- c) references in some TSIs to the data to be recorded in ERATV and RINF that duplicate or contradict the draft decisions on [27] ERATV and [26] RINF that received a positive opinion of the RISC.

The lists do not include:

- translation errors (versions in other languages than English);
- minor editorial deficiencies that in no way hamper a correct application of the TSI;
- some cases where the TO concluded that the concerned errors would be addressed in the forthcoming revisions;
- cases where the TOs were clarifications, but the subject was not considered a deficiency;
- comments which were done by AEIF sub-groups (before the establishment of the Agency), for which the Agency does not have adequate traceability;
- amendments that have been included in Annex 3 of [28] Agency Recommendation ERA/REC/04-2011/INT (RINF Recommendation).

The lists have been made available to the WP established for revision of different TSIs. Comments received from the WP have been taken into account.

A draft of the Recommendation and of this report was presented to the NSA Network on 7 September 2011.

5. DETAILED EXPLANATION OF PROPOSED AMENDMENTS

5.1. AMENDMENTS TO WAG TSI (DECISION 2006/861/EC)

Table 3: Explanation of amendments to WAG TSI

Amended clause	Explanation
4.2.3.2 Static axle load and linear load	[35] TO IU-WAG-100211-TO
4.2.4.1.2.8 Parking Brake	[36] TO ERA/OPI/2010-17/INT
4.3.2.1 Static axle load, mass per unit length and geometrical characteristics of axle spacing (section 4.2.3.2)	[35] TO IU-WAG-100211-TO
4.3.5.4 Static axle load, dynamic wheel load and linear load	
Annex D	
In Annex I, Figure I.5	Legend is corrected. This amendment is according to [29] list of deficiencies (ID69)
In Annex P, Table P.3	[29] List of deficiencies (ID75 and 76) (derived from EN not copied correctly)
In Annex Q, Table Q.1	[29] List of deficiencies (ID77)
In Annex FF, Table FF 2.1	[29] List of deficiencies (ID78-79)
Annex FF, Table FF 2.2	[29] List of deficiencies (ID80-82)
Annex FF, Table FF 3	[29] List of deficiencies (ID83-84)
Annex FF, Table FF 8	[29] List of deficiencies (ID85)

The proposed amendments do not contain any correction following the TOs [30] TO Interop/JCP2008, [33] IU-WAG-TO3 nor [40] ERA/OPI/2011-10/INT. According to the conclusions of these TOs, the concerned errors are not critical. Therefore, they will be addressed in the forthcoming revised WAG TSI.

The proposed amendments do not contain any correction following [42] TD ERA/TD/2009-03/INT nor [37] TO ERA/OPI/2010-18/INT, which is a clarification of the TD.

5.2. AMENDMENTS TO SRT TSI (DECISION 2008/163/EC)

Table 4: Explanation of amendments to SRT TSI

Amended clause	Explanation
Title	[29] List of deficiencies (ID87). Word "draft" deleted
4.2.5.9 Emergency lighting system in the train	[29] List of deficiencies (ID27). Wrong number in a reference corrected.
4.3.2 Interfaces with the Infrastructure subsystem	[34] TO ERA/ADV/02-2009/INT (Point 6), [29] List of deficiencies (ID26)
4.3.2.1 Escape walkways	[29] List of deficiencies (ID22)
4.3.3 Interfaces with the Energy subsystem	[34] TO ERA/ADV/02-2009/INT (Point 6), [29] List of deficiencies (ID26)
4.3.4 Interfaces with the Control-Command-Signalling subsystem	
4.3.5 Interfaces with the Traffic Management and Operation subsystem	
4.3.6 Interfaces with the rolling stock subsystem	[34] TO ERA/ADV/02-2009/INT (Point 6), [29] List of deficiencies (ID26) [29] List of deficiencies (ID23), Wrong number in a reference corrected.
4.3.7 Interfaces with the PRM subsystem	[34] TO ERA/ADV/02-2009/INT (Point 6), [29] List of deficiencies (ID26)
6.2.1 Conformity assessment (general)	

5.3. AMENDMENTS TO PRM TSI (DECISION 2008/164/EC)

Table 5: Explanation of amendments to PRM TSI

Amended clause	Explanation
4.1.2.18.1 Platform height	[29] List of deficiencies (ID15). This is a correction of an omission. The TSI does not currently mention anything for the High Speed network. Clause 4.2.20.4 of the HS INF TSI is only applicable to platforms where trains complying with the HS High-Speed Rolling Stock TSI are intended to stop on normal commercial operation (as per clause 4.2.20 of the HS INF TSI). So a new category needs to be added for exhaustivity that are the platforms on the High Speed network where no train complying with the High-Speed Rolling Stock TSI are intended to stop on normal commercial operation.
4.2.2.2.2.1 Priority seats. General	[29] List of deficiencies (ID86). Dimension of 1680 mm is correctly referenced in the proposed new drawing
7.3.2 Rolling Stock	[29] List of deficiencies (ID19). Comment: the current text says "This clause of the TSI does not apply..." which is not correct as it is the TSI in full that does not apply to the described case.
Annex N PRM Signage	[38] TO ERA/OPI/2011-03/INT, [29] List of deficiencies (ID88).

5.4. AMENDMENTS TO HS INF TSI (DECISION 2008/217/EC)

Table 6: Explanation of amendments to HS INF TSI

Amended clause	Explanation
4.2.9.2 Design values	[29] List of deficiencies in TSIs (ID43, 44 and 45), the references to standards corrected.
4.2.14.1 Vertical loads	[29] List of deficiencies in TSIs (ID46 and 47), the references to standards corrected.
4.2.14.2 Dynamic analysis	[29] List of deficiencies in TSIs (ID48), the references to standards corrected.
4.2.14.4 Nosing forces	[29] List of deficiencies in TSIs (ID49), the references to standards corrected.
4.2.14.5 Actions due to traction and braking (longitudinal loads)	[29] List of deficiencies in TSIs (ID50), the references to standards corrected.
4.2.18 Electrical characteristics	[41] TO ERA/OPI/2011-12/INT
4.7 Health and safety conditions	[29] List of deficiencies in TSIs (ID51), the references to standards corrected, the abbreviation 'HS INS' is replaced by words 'high speed infrastructure'.
5.3.1.1 'Railhead profile	Amendment to paragraph (a) is according to [39] TO ERA/OPI/2011-07/INT [29] List of deficiencies in TSIs (ID52 and 53). In addition, since the reference to the standard had to be corrected, this gave an opportunity for indicating the latest version of the standard. A reference to this latest version of the standard makes Annex F unnecessary.
5.3.1.3 Steel grade	[29] List of deficiencies in TSIs (ID54), the reference to standard corrected
5.3.2 The rail fastening systems	[41] TO ERA/OPI/2011-12/INT, [29] List of deficiencies in TSIs (ID55)
6.1.6.2 Assessment of fastening system	[41] TO ERA/OPI/2011-12/INT
7.3.5 Particular features on the Finnish network	[29] List of deficiencies in TSIs (ID56)
Annex A (tables A1 and A2)	Necessary for coherence with changes to 4.2.18 and 5.3.2
Annex B1 (table B1)	
Annex C	[29] List of deficiencies in TSIs (ID58), title of module corrected
Annex F	[29] List of deficiencies in TSIs (ID42). See also the explanation for 5.3.1.1.
Annex H	[29] List of deficiencies in TSIs (ID57)

5.5. AMENDMENTS TO HS RST TSI (DECISION 2008/232/EC)

Table 7: Explanation of amendments to HS RST TSI

Amended clause	Explanation
4.2.3.4.7 Design values for wheel profiles	[29] List of deficiencies in TSIs (ID8 and 9). Deficiency also identified for the Annex F of HS INF TSI ([29] List of deficiencies ID 42).
4.2.7.2.2. Measures to prevent fire	[29] List of deficiencies in TSIs (ID2).
4.2.7.4.2.1 Horns – General	[31] TO “Interop/JCP/HLA/2008/87” of 23/05/2008.
4.2.7.4.2.5 Horns – Interoperability constituent requirements	Tolerances on frequencies set up according to Decision 2011/291/EU (CR LOC&PAS TSI).
7.1.3 Rolling stock of an existing design	[32] TO “Interop/JCP/HLA/2008/162” of 19/09/2008.
7.1.8.2 Future agreements	Deficiency presented at RISC meeting 48 (document 96/48/DV 103 EN02). It also covers deficiency identified in [29] List of deficiencies in TSIs (ID89).
Annex N, on figure N1	[29] List of deficiencies in TSIs (ID10). The correction ensures consistency with the CR Noise TSI.
Annex P	[29] List of deficiencies in TSIs (ID3).

5.6. AMENDMENTS TO HS ENE TSI (DECISION 2008/284/EC)

Table 8: Explanation of amendments to HS ENE TSI

Amended clause	Explanation
4.2.6 External electromagnetic compatibility	[29] List of deficiencies in TSIs (ID31), reference to standard corrected
4.2.20 Current capacity, DC systems, trains at standstill	[29] List of deficiencies in TSIs (ID36), Reference to standard corrected
4.2.21 Phase separation sections	[29] List of deficiencies in TSIs (ID37), term corrected
4.2.25 Harmonics and Dynamic Effects	[29] List of deficiencies in TSIs (ID38), “AC supply” added. The requirement is not applicable for DC.
6.2.2.1 General	[29] List of deficiencies in TSIs (ID40), reference corrected

5.7. AMENDMENTS TO CR RST NOISE TSI (DECISION 2011/229/EU)

No deficiency in this TSI has been detected so far.

The proposed change is for removing requirements duplicating the draft ERATV decision.

5.8. AMENDMENTS TO CR ENE TSI (DECISION 2011/274/EU)

No deficiency in this TSI has been detected so far.

All the proposed changes are for removing requirements duplicating the draft ERATV decision.

5.9. AMENDMENTS TO CR INF TSI (DECISION 2011/275/EU)

All the proposed changes, except the ones in the following table, are for removing requirements duplicating the draft RINF decision.

Table 9: Explanation of amendments to CR INF TSI

Amended clause	Explanation
5.3.1.1 Railhead profile	[39] TO ERA/OPI/2011-07/INT
6.1.4.2 EC declaration of conformity for the rail	

5.10. AMENDMENTS TO CR LOC&PAS TSI (DECISION 2011/291/EU)

No deficiency in this TSI has been detected so far.

All the proposed changes are for removing requirements duplicating the draft ERATV decision.

6. SUMMARY OF PROPOSED AMENDMENTS

Table 10: Summary of necessary amendments

TSIs	Correction of deficiencies	Removing duplications with ERATV and RINF specs
Dec 2002/731/EC HS CCS	None (see note 1)	Already recommended (see note 4)
Dec 2002/732/EC HS INF	None (see note 1)	Already recommended (see note 4)
Dec 2002/733/EC HS ENE	None (see note 1)	Already recommended (see note 4)
Dec 2002/735/EC HS RST	None (see note 1)	Already recommended (see note 4)
Dec 2006/66/EC RST Noise	None (see note 1)	Already recommended (see note 4)
Dec 2006/679/EC CR CCS	None (see note 2)	Already recommended (see note 4)
Dec 2006/860/EC HS CCS	None (see note 2)	Already recommended (see note 4)
Dec 2006/861/EC CR WAG	Several deficiencies (see details in section 5)	Already recommended (see note 4)
Dec 2006/920/EC CR OPE	None (see note 2)	None (see note 5)
Reg No 62/2006/EC TAF	None (see note 2)	None (see note 5)
Dec 2008/163/EC HS&CR SRT	Several deficiencies (see details in section 5)	Already recommended (see note 4)
Dec 2008/164/EC HS&CR PRM	Several deficiencies (see details in section 5)	Already recommended (see note 4)
Dec 2008/217/EC HS INF	Several deficiencies (see details in section 5)	Already recommended (see note 4)
Dec 2008/231/EC HS OPE	None (see note 2)	None (see note 5)
Dec 2008/232/EC HS RST	Several deficiencies (see details in section 5)	Already recommended (see note 4)
Dec 2008/284/EC HS ENE	Several deficiencies (see details in section 5)	Already recommended (see note 4)
Dec 2011/229/EU RST Noise	None (see note 3)	Duplications with ERATV
Dec 2011/274/EU CR ENE	None (see note 3)	Duplications with RINF and ERATV
Dec 2011/275/EU CR INF	Several deficiencies (see details in section 5)	Duplications with RINF
Dec 2011/291/EU CR LOC&PAS	None (see note 3)	Duplications with ERATV
Reg No 454/2011 TAP	None (see note 3)	None (see note 5)

Notes:

1. No amendment is necessary. This TSI has already been revised.
2. No amendment is necessary besides the normal TSI revision process.
3. No deficiency has been detected so far.
4. Amendments have been recommended along with the RINF specification.
5. The TSI does not have requirements for ERATV nor RINF