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**Economic Commission for Europe****Inland Transport Committee****Working Party on Intermodal Transport and Logistics****Fifty-seventh session**

Geneva, 10–11 November 2014

Item 2 (c) of the provisional agenda

**European Agreement on Important International****Combined Transport Lines and Related Installations (AGTC)****Working Party on Rail Transport****Sixty-eighth session**

Geneva, 24–26 November 2014

Item 3(c) of the provisional agenda

**European Agreement on Main International****Railway Lines (AGC Agreement)****Amendment proposals (Minimum infrastructure and performance standards)\*****Note by the secretariat****I. Mandate**

1. The amendment proposals to the European Agreement on Main International Railway Lines (AGC) and to the European Agreement on Important International Combined Transport Lines and Related Installations (AGTC) presented below have been prepared by the secretariat in line with the mandate of the Working Party on Rail Transport (SC.2) to review the development of the AGC network in accordance with its programme of work for the period 2014-2018 (ECE/TRANS/2014/26, activity 02.5.1, output A (b)) and with the mandate of the Working Party on Intermodal Transport and Logistics (WP.24) to review the development of the AGTC network in accordance with its programme of work for the period 2014-2018 (ECE/TRANS/2014/26, activity 02.9.1, output A 1(a) (c)).

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\* The present document is being without formal editing.

2. In 2011, Working Party on Rail Transport with the Working Party on Intermodal Transport and Logistics at their joint session reviewed the minimum infrastructure standards contained in annex II of the AGC Agreement and annex III of the AGTC Agreement (ECE/TRANS/SC.2/2010/1). Both Working Parties agreed that the Technical Specifications for Interoperability (TSI) applicable in the European Union were generally in line with the present minimum AGC and AGTC technical characteristics, but contained at least twenty more parameters that were considered essential for trans-European rail systems and had been prepared by the European Railway Agency (ERA) under the so-called Interoperability Directive 2008/57/EC. The scope of these TSIs went, however, well beyond the objective and the minimum requirements enshrined in the pan-European AGC and AGTC Agreements. Thus, all TSI parameters may not necessarily need to be considered for inclusion into the AGC and AGTC Agreements (ECE/TRANS/SC.2/216, paras. 11–14).

3. The secretariats of both Working Party on Rail Transport and Working Party on Intermodal Transport and Logistics after having consulted with experts from the European Railway Agency (ERA) and in line with the principles described in paragraph 2 prepared document ECE/TRANS/SC.2/2014/1–ECE/TRANS/SC.2/2014/1 which contains amendment proposals to the AGC and AGTC agreements for consideration and approval by the Working Parties.

## **II. Amendment proposals**

4. The amendment proposals to the minimum infrastructure standards contained in annex II of the AGC Agreement and annex III of the AGTC Agreement are listed in the table below.

Parameter	AGC Agreement Annex II (ECE/TRANS/63/Rev.1)		AGTC Agreement Annex III (ECE/TRANS/88/Rev.5)		Technical Specification for Interoperability (TSI) European Union		New merged Infrastructure TSI (draft)	TEN NETWORK (according to new Regulation 1315)	To be considered and approved by the Administrative Committees of AGC-AGTC	
	Existing lines	New lines		Existing lines (targets)	Trans-European High-Speed Rail System (2008/217/EC)	Trans-European Conventional Rail System (2011/275/EU)				
		Passenger lines only	Passenger lines and goods traffic							
1	Number of tracks	-	2	2	-	2	-	-		
2	Vehicle loading gauge (minimum infrastructure gauge)	UIC B	UIC C1	UIC C1	UIC B	UIC C	Gauge GC (reference kinematic profile) For modification work, GB permitted	Gauge GC, GB or GA depending on TSI categories of line	Depending on Traffic Codes assigned to the specific line	
3	(Minimum) distance between track centres	4.0 m	4.2 m	4.2 m	4.0 m	4.2 m	if < 4.0 m, determined on the basis of the reference kinematic profile (<230 km/h)  4.0 m (230-≤ 250 km/h) 4.2 m (250-≤ 300 km/h) 4.5 m (> 300 km/h)	Depending on gauge (to be published in Register of Infrastructure)	Depending on the speed and on the nominal track gauge (e.g. 3,8 m, for 1435 mm and speed ≤ 200 km/h and 160 km/h)	Possible introduction of relevant scale such as the one of TSIs <b>(&lt; 4.0 m, 4.0 m, 4.2 m, 4.5 m )</b>

Parameter	AGC Agreement Annex II (ECE/TRANS/63/Rev.1)		AGTC Agreement Annex III (ECE/TRANS/8 8/Rev.5)			Technical Specification for Interoperability (TSI) European Union		New merged Infrastructure TSI (draft)		TEN NETWORK (according to new Regulation 1315)	
	Existing lines	New lines		Existing lines (targets)	Trans-European High-Speed Rail System (2008/217/EC)	Trans-European Conventional Rail System (2011/275/EU)				To be considered and approved by the Administrative Committees of AGC-AGTC	
		Passen ger lines only	Passen ger and goods traffic								
4	Nominal minimum speed	160 km/h	300 km/h	250 km/h	120 km/h	120 km/h	Line speed for new and upgraded lines depending on TSI categories of line	Line speed for new and upgraded lines 100–200 km/h depending on TSI categories of line	Depending on Traffic Codes assigned to the specific line	Minimum 100 km/h (on core Freight lines)	Possible introduction of Nominal minimum speed for different categories of lines
5	Authorized mass per axle	-	-	-	-	-	Shall be able to withstand the values defined in HS RST TSI	20–25 t depending on TSI categories of line (no differentiation by type of rolling stock	Depending on Traffic Codes assigned to the specific line	22,5 ton/axle (on core Freight lines)	Possible introduction of Authorized mass per axle for high speed trains
5a	Locomotives (≤ 200 km/h)	22.5 t	-	22.5 t	-	-	-	-	-	-	-
5b	Rail cars and rail motor sets (≤ 300 km/h)	17 t	17 t	17 t	-	-	-	-	-	-	-
5c	Carriages	16 t	-	16 t	-	-	-	-	-	-	-
5d	Wagons (≤ 100 km/h)	20 t	-	22.5 t	22.5 t	22.5 t	-	-	-	-	-
	(≤ 120 km/h)	20 t	-	20 t	20 t	20 t	-	-	-	-	-
	(≤ 140 km/h)	18 t	-	18 t	-	-	-	-	-	-	-
6	Authorized mass per	8 t	-	8 t	-	-	-	-	-	-	-

Parameter	AGC Agreement Annex II (ECE/TRANS/63/Rev.1)		AGTC Agreement Annex III (ECE/TRANS/88/Rev.5)		Technical Specification for Interoperability (TSI) European Union		New merged Infrastructure TSI (draft)	TEN NETWORK (according to new Regulation 1315)	To be considered and approved by the Administrative Committees of AGC-AGTC
	Existing lines	New lines Passenger lines only	Existing lines (targets)	Existing lines (targets)	Trans-European High-Speed Rail System (2008/217/EC)	Trans-European Conventional Rail System (2011/275/EU)			
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7 Test train (bridge design)	UIC 71	-	UIC 71	-	-	-	-	Design of bridges in accordance with EN1991-2:2003/A:2010	
8 Maximum (rising and falling) gradient k/	-	35 mm/m	12.5 mm/m	-	12.5 mm/m	35 mm/m (Line category I) <sup>1</sup> under certain conditions (“envelope”) Variable, taking into account requirements in HS RST TSI (Line categories II and III) <sup>2</sup>	12.5–35 mm/m under certain conditions (“envelope”) depending on TSI categories of line	35 mm/m (only for new lines with Traffic Code P1 and under certain conditions (“envelope”))	Possible introduction of Maximum (rising and falling) gradient k/ for high speed lines

<sup>1</sup> Line of category I: Specially built high-speed lines equipped for speeds generally equal to or greater than 250 km/h.

<sup>2</sup> Line of category II: Specially upgraded high-speed lines equipped for speeds of the order of 200 km/h.

Line of category III: Specially upgraded high-speed lines or lines specially built for high-speed, which have special features as a result of topographical, relief, environmental or town-planning constraints, on which the speed must be adapted to each case.

Parameter	AGC Agreement Annex II (ECE/TRANS/63/Rev.1)		AGTC Agreement Annex III (ECE/TRANS/8 8/Rev.5)		Technical Specification for Interoperability (TSI) European Union		New merged Infrastructure TSI (draft)		TEN NETWORK (according to new Regulation 1315)	
	Existing lines	New lines		Existing lines (targets)		Trans-European High-Speed Rail System (2008/217/EC)	Trans-European Conventional Rail System (2011/275/EU)	To be considered and approved by the Administrative Committees of AGC-AGTC		
		Passen ger lines only	Passen ger and goods traffic							
9	Minimum platform length in principal stations (platforms)	400 m	400 m	400 m	-	-	400 m	Sufficient to accommodate the longest interoperable train intended to stop at the platform in normal service	Depending on Traffic Codes assigned to the specific line	
10	Minimum useful siding length	750 m	-	750 m	750 m	750 m	-	Various values depending on TSI categories of line	Depending on Traffic Codes assigned to the specific line	740 m (on core Freight lines)
11	Level crossings	None	None	None	-	-	-	-		