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DIRECTORATE-GENERAL III
INDUSTRY
Industrial affairs II: Capital goods industries
Aerospace, rail and other guided transport systems; defence industries

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MANDATE TO CEN/CENELEC/ETSI FOR STANDARDIZATION in the field of RAILWAY EQUIPMENT on the INTEROPERABILITY OF THE TRANS-EUROPEAN HIGH-SPEED RAIL SYSTEM

1. MOTIVATION.

Trans-European networks are the subject of Title XII of the Treaty on European Union which provides that Community action must aim at supporting the interconnection and interoperability of national networks, and access to such networks.

Within this framework, a series of Community guidelines were drawn up for the trans-European transport network. On the basis of the guidelines on the high-speed network, Directive 96/48/EC[1], on the interoperability of the trans-European at high-speed rail system was adopted on 23 July 1996. In this document, interoperability is defined as the result of respecting a set of essential requirements for safety, health, protection of the environment, technical compatibility and reliability and availability. It is also foreseen that interoperability will be made the subject of Technical Interoperability Specifications (TSI), the application of which will be particularly based on reference to standards.

[1] OJ L235 OF 17.09.96

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TSI are technical specifications elaborated for the various sub-systems making up the trans-European network. They specify, for each sub-system, the essential requirements, establish basic parameters, determine the interoperability constituents and interfaces which must be covered by European specification, such as European standards, for the interoperability, and state the modules to be used as defined in Council Decision 93/465/EEC.

This mandate falls within the framework of Directive 96/48/EC. In 1993, the Commission submitted to the Committee "Standards and Technical Regulations" of Directive 83/189/EEC, a mandate (M/024) requesting in phase 2 the development of a programme in the field of the interoperability of the trans-European high-speed rail system. This Committee expressed a favourable opinion for this mandate at its meeting on 11 October 1993.

After several consultation and co-operation meetings, the three standardization bodies forwarded their work programme of 14 August 1998 to the Commission as a common answer to this programming mandate. This programme was submitted to the Committee of Directive 96/48/EC, which hold its meeting on 29 September 1998. In this meeting this Committee gave its positive opinion on this programme.

2. DESCRIPTION OF THE MANDATED WORK.

2.1 CEN/CENELEC/ETSI are asked to carry out the common standardization programme, taking into account the requirements which arise from Directive 96/48/EC.

2.2 Where equipment is covered by the scope of other Directives, existing or known to be in preparation, the standards elaborated under this mandate should not overlap with aspects mandated under other Directives. However, the standards should take account of, and where necessary make reference to, other European standards in the field, either existing or in preparation. Account should be taken of the implications for other aspects of Community policy - for example, environmental and health and safety questions.

3. BODIES TO BE ASSOCIATED.

The elaboration of the standards should be undertaken in co-operation with the broadest possible range of interested groups, including international and European level associations. Those involved should include railway operators, infrastructure managers and railway regulatory bodies; manufacturers and installers of railway equipment and rolling stock; other industries associated with the railway industry and passenger groups. In particular, co-operation with AEIF, UIC, CER, UITP and UNIFE is regarded as essential.

4. EXECUTION OF THE REQUEST.

4.1 The mandate will be carried out according to the attached programme and could later be completed, if necessary. The programme itself could be adapted and/or completed depending of the realized progress. The European standards bodies will transmit amendments of this programme to the Commission, which will inform the Committee on standards and technical regulations. The work to be undertaken and their results should be inter-connected, compatible and mutually acceptable to CEN, CENELEC and ETSI.

4.2 CEN, CENELEC and ETSI will have to present the draft standards mentioned above by the dates agreed. The European standards will have to be adopted by the dates agreed upon. On these dates, the three linguistic versions (DE, EN, FR) must be available as well as the correct titles in the other Community languages.

4.3 The European standards adopted should be transposed into national standards and differing national standards will have to be withdrawn from the catalogues of the national standards organizations in the Member States within six months of their adoption.

4.4 Accepting this standardization mandate by CEN, CENELEC and ETSI will open the standstill period referred to in Article 7 of the amended directive 83/189/EEC of 28 March 1983 (see Directive 98/34/EC of 22 June 1998, OJ L204 of 21.07.98, which contains all the amendments of Directive 83/189/EEC).

Annex:

Common programme from CEN, CENELEC/ETSI:

JPC Rail - Draft Standardization Programme Supporting Directive 96/48

EUROPEAN COMMISSION

96/48-DV13	version EN01
STANDPRO	origin EN
27.08.98	status NA

Directive 96/48
Interoperability of the trans-European High-Speed Rail System

JPC Rail - Draft Standardisation Programme Supporting Directive 96/48

The following working document has been produced by the CEN/CENELEC/ETSI Joint Programming Committee Rail in the context of the Programming Mandate M/024 phase 2.

General comments of the table

The work items (subjects) are classified on the bases of the latest available table of interoperability elements. As the TSIs on Environment, Functional Operations and Users are not developed, the subjects are left for the moment at the bottom of the list and will possibly move at a later stage.

The Category 1, 2, 3 were agreed at an informal meeting which took place between EC (DG III and DG VII), AEIF and the CEN-CENELEC-ETSI Joint Programming Committee on 97-05-17.

The columns "Working Group", "Comments" and the "Category A,B,C" are not mandatory information but are given for a better understanding of the programme and in order to maintain a continuous monitoring.

The subject numbering may appears strange or complex but is the result of the need to maintain an harmony amongst the various version (including future version) of the programme .

The stage codes ("Target Dates"), when not provided by the responsible Technical Committee Secretary were based on interpolation or statistical extrapolation on the bases of the stage code 49. This is the case for the estimation information for stage 53 and 73. The mention "done " or a "-" appears when the document has already reached the stage.

Brief explanation of the stage code
Stage 32: Circulation of the draft standard to TC members for agreement
Stage 40: Draft standard available for CEN enquiry (6 months)
Stage 49: Draft standard available for Formal Vote (2 months)
Stage 53: Document ratified , Publication decided
Stage 73: EN implemented by all the members.

Categories as defined at the meeting of 97-05-17:

Category 1: Those work items where standardization work **cannot be initiated** without having more precise specifications or guidelines from AEIF (Joint Representative Board) mandated to draft the TSI (Technical Specifications of Interoperability).

Category 2: Those work Items where standardization work **has been or can be initiated** without having at this stage a need of further information from AEIF.

Category 3: Those work items in fields where a **transformation** of a part or whole of the documents of existing reference (UIC leaflets, FFIS (Form Fit Interface Specification)....) in the European Standard is necessary.

Categories as define by CENELEC TC9X

Category A: Standards already under elaboration which TC9X considers as support standards for interoperability. These standards had not been mandated in the first phase. Already mandated standards which could fall in category A (e.g. on EMC) are not part of the list.

Category B: New projects derived from existing standards (ratified or under elaboration)

Category C: New projects specifically required fro interoperability.

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
1. INFRASTRUC-TURE														
1.1 Line Alignment														
1.1.1, 5.1.3	1. Vehicle gauges SCOPE : Requirements for : General application for the kinematic vehicles gauge	CEN						X						
	a) Part 1: Railway transport stock - Rolling stock construction gauge		3			X			UIC 505-1	00-12	02-03	03-12	04-08	05-11
	b) Part 2: Effects of the application of the kinematic gauges defined in the EN prepared for 1. a) on the positioning of structures in relation to the tracks and of the tracks in relation to each other		3			X			UIC 505-4	00-12	02-03	03-12	04-08	05-11
	c) Part 3: Basic conditions for the ENs prepared for 1. a) and b) - Notes on the preparation and provisions of these ENs		3			X			UIC 505-5	00-12	02-03	03-12	04-08	05-11
	d) Part 4: Rules governing application of the enlarged GA, GB and GC gauges		3			X			UIC 506	00-12	02-03	03-12	04-08	05-11
1.1.3	2. Tunnels, aerodynamical requirements SCOPE: Definition and calculation of the essential parameters for rolling stock and for tunnels in relation to aerodynamic behaviour for the protection of the passenger (method of verification)	CEN					WG 6		Eurocode 1 (ENV 1991-3) UIC 779-11					

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	a) Part 1: Symbols, units		2		018				See also Subject No 40	98-08	99-11	01-08	02-05	03-07
	b) Part 3: Aerodynamics in tunnels, general		2		027					98-08	99-11	01-08	02-05	03-07
	c) Part 5: Requirements and test methods for verification		2			X				99-12	01-03	02-12	03-09	04-11
1.1.4a, 1.1.4b, 1.2.6, 1.2.7	3. Engineering structures, vertical, horizontal and longitudinal static loads SCOPE: Definition of loads and verification of dynamic behaviour	CEN	2			X		X	EUROCODE	00-12	02-03	03-12	04-09	05-11
	3.1 Lateral protection SCOPE: Protection of fences, detection of vehicles fallen on track	CEN	1			X		X						
1.2 Track														
1.2.2, 1.2.3, 1.2.4a	4. Track design parameters SCOPE: Verification of track design parameters	CEN					WG 15		UIC 518 UIC 711					
	a) Part 1: Standard track		2		099					98-06	99-09	01-06	02-03	03-05
	b) Part 2: Switches and crossings		2			X				99-07	00-10	02-07	03-04	04-06
1.2.5c	5. Rail steel characteristics SCOPE: Requirements for the different steel grades considering hardness range and alloys	CEN			WG 4									
	a) Part 1: Flat bottom symmetrical railway rails 46 kg/m and above		2		009					-	98-09	00-06	01-03	02-05
	b) Part 2: Switch and crossing rails used in		2		066					-	99-05	01-02	01-11	03-01

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	conjunction with flat bottom railway rails 46 kg/m and above													
	c) Part 3: Check rails		2		067					-	99-05	01-02	01-11	03-01
1.2.8, 1.2.14	6. Quality of track geometry SCOPE: Verification, definition of quality of track parameters including track bed stiffness	CEN	2			X	WG28		UIC 518	99-12	01-03	02-12	03-09	04-11
1.2.9, 1.2.10a	7. Switches and crossings SCOPE: General requirements and definitions	CEN					WG18		UIC 510-2 UIC 716					
	a) Part 1: Definitions		2		048				prEN 13232-1	-	-	99-11	00-08	01-10
	b) Part 2: Design and tolerances		2		049				prEN 13232-2	-	-	99-11	00-08	01-10
	c) Part 3: Wheel/rail interaction		2		050				prEN 13232-3	-	-	99-11	00-08	01-10
	d) Part 4: Operation and safety		2			X				99-12	01-03	02-12	03-08	04-11
	e) Part 5: Switches		2		102					98-05	99-08	01-06	02-03	03-05
	f) Part 6: Fixed common and obtuse crossings		2		103					98-05	99-08	01-06	02-03	03-05
	g) Part 7: Moveable crossings		2			X				99-12	01-03	02-12	03-09	04-11
	h) Part 8: Check rails		2			X				00-12	02-03	03-12	04-09	05-11
	i) Part 9: Rail joint systems		2			X				00-12	02-03	03-12	04-09	05-11
	k) Part 10: Components		2			X				00-12	02-03	03-12	04-09	05-11
	l) Part 11: Limiting values and their control		2			X				01-06	02-09	04-06	05-03	06-05

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
1.2.13	8. Concrete sleepers and bearers	CEN					WG 16							
	SCOPE: – General requirements and definitions – Performance requirements – Test methods													
	a) Part 1: General requirements		2		037				prEN 13230-1	-	98-02	99-11	00-08	01-10
	b) Part 2: Prestressed monobloc sleepers		2		072				prEN 13230-2	-	98-02	99-11	00-08	01-10
	c) Part 3: Twinblock reinforced sleepers		2		073				prEN 13230-3	-	98-02	99-11	00-08	01-10
	d) Part 4: Prestressed bearers for switches and crossings		2		100				prEN 13230-4	-	98-06	00-03	00-12	02-02
	e) Part 5: Special elements		2		101				prEN 13230-5	-	98-06	00-05	01-02	02-04
1.2.13	9. Fastening systems	CEN					WG 17							
	SCOPE: – General requirements and definitions – Performance requirements for systems for • concrete sleepers • slab track – Test methods													
	- Performance requirements													
	a) Part 1: Definitions		2		039					-	98-11	00-08	01-05	02-07
	b) Part 2: for concrete sleepers		2		041					-	98-11	00-08	01-05	02-07
	c) Part 5: for slab track		2		044					-	99-03	00-12	01-09	02-11
	d) Part 6: for attenuation		2		045					-	99-11	01-08	02-05	03-07
	e) Part 7: for switches and crossings, check rails and guard rails		2		046					-	99-04	01-01	01-08	02-10

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	- Test methods													
	f) Part 1: Determination of longitudinal rail restraint		2		074				prEN 13146-1	-	-	99-12	00-09	01-11
	g) Part 2: Determination of torsional resistance		2		075				prEN 13146-2	-	-	99-12	00-09	01-11
	h) Part 3: Determination of attenuation of impact loads		2		076				prEN 13146-3	-	-	99-12	00-09	01-11
	i) Part 4: Effect of repeated loading		2		077				prEN 13146-4	-	-	99-12	00-09	01-11
	k) Part 5: Determination of electrical resistance		2		078				prEN 13146-5	-	-	99-12	00-09	01-11
	l) Part 6: Effect of severe environmental conditions		2		079				prEN 13146-6	-	-	99-12	00-09	01-11
	m) Part 7: Determination of clamping force		2		080				prEN 13146-7	-	-	99-12	00-09	01-11
	n) Part 8: In service testing		2		081				prEN 13146-8	-	-	99-12	00-09	01-11
1.3 Stations									derived from					
1.3.1	10. Platforms SCOPE: based on UIC 741	CEN	1			X		X	UIC 741					
	11. (RA) - Environmental conditons for equipment - Part 2 - Equipment in fixed installations	CLC	2	A	X		WG C8 .		EN 50125-2	Done	98-09	99-03	99-12	01-02
2. POWER SUPPLY	12. (RA) - Rolling stock-Pantographs characteristics and Intereporability	CLC	2	B	X				Project B1 derived from EN 50206-1	Done	98-08	98-10	99-06	00-09
	13. (RA) Power supply and rolling stock - Protection principles for ensuring fault													

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	discrimination between supply and rolling stock for interoperability purposes Part 1 - General SCOPE : Rules for establishing electrical fault discremi- nation levels throughout the power supply and the rolling stock, for interoperability purposes.	CLC	2	C	X				Project B3	99-12	00-02	00-08	01-04	02-07
	14. Part 2 - Special requirements for rolling stock SCOPE : Requirements for setting and testing the electrical protection levels of the main circuits, for operation on a specified power system, for interoperability purposes.	CLC	2	C	X				Project B4	99-12	00-02	00-08	01-04	02-07
	15. (RA) Power supply and rolling stock - Maximum power demand limit of rolling stock for interoperability purposes SCOPE : Provisions on rolling stock to ascertain that coordination between power supply system and rolling stock required performances is achieved, for interoperability purposes.	CLC	2	C	X				Project B5	99-06	99-12	00-02	00-09	02-01
	16. (RA) - Fixed installations - current collection system - Validation of simulation of the dynamic interaction between contact line and pantograph	CLC	2	A	X		WG C7A			Done	99-01	99-06	99-12	01-05
	17. (RA) - fixed installations - Current collection system - Requirements for and validation of measurements of the dynamic interaction between pantograph and overhead contact line	CLC	2	A	X		WG C7B			Done	99-01	99-06	99-12	01-05
	18. (RA) Technical criteria for the interaction between pantograph and overhead contact line (to achieve free access) SCOPE : To set up requirements for the acceptance of rolling stock on infrastructure in the	CLC	2	A	X		WG C9			98-03	99-06	99-12	00-06	01-11

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	field of interaction between pantograph and overhead contact line													
	19. (RA) Overhead contact line geometry - Requirements for interoperability	CLC	2	B	X				ProjectC1 derived from EN 50119	98-12	99-08	99-02	00-12	01-01
	20. (RA) Power supply and rolling stock - Protection principles for ensuring fault discrimination between supply and rolling stock for interoperability purposes Part 3 - Special requirements for fixed installations SCOPE : requirements for setting and testing the electrical protection levels of the power supply system to provide fault discrimination through the system, for interoperability purposes.	CLC	2	C	X				Project C2	99-12	00-06	00-12	01-06	02-11
	21. (RA)Power supply and rolling stock - Minimum installed power in the traction system power supply for interoperability purposes. SCOPE : Provisions on power supply system to ascertain that coordination between power supply system and rolling stock required performances is achieved, for interoperability purposes.	CLC	2	C	X				Project C3	99-06	00-01	00-06	00-12	01-11
	22. (RA) Voltage and frequency limits - Requirements for interoperability.	CLC	2	B	X				Project C4 derived from EN 50163	98-12	99-06	99-12	00-12	01-11
3. MAINTENANCE INSTALLATIONS														
3.2	23. Toilet waste disposal system Deleted (included within TSI)	CEN												
3.7	24. Facilities to replenish, supply of consumer goods	CEN												

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
4. CONTROL, COMMAND	Deleted (included within TSI)													
4. Automatic signaling and stopping syst.	25. (RA) - Communication, signalling and processing systems - Safety related communication in closed transmissions systems	CLC	2	A	X		WG A2		EN 50159-1	done	done	98-03	98-12	00-02
	26. (RA) - Communication , signalling and processing- systems - Safety related communication in open transmissions systems	CLC	2	A	X		WG A6		EN 50159-2	done	97-12	98-06	98-12	00-02
	27. (RA) - Communication, signalling and processing systems - Compatibility between rolling stock and train detection systems	CLC	2	A	X		WG A4		EN 50238	done	98-06	98-12	99-09	00-11
	28. (RA) - Environmental conditions for equipment Part 3 - Equipment for signalling and telecommunications	CLC	2	A	X		WGA7		EN 50125-3	done	98-06	98-12	99-09	00-11
	ERTMS - INTERFACES STANDARDISATION													
	29. (RA) Functional aspects of the system common to all interfaces SCOPE : standardisation of functions relevant for interoperability	CLC	2	C	X				Project A1	98-08	99-11	00-05	00-11	02-04
	30. (RA) Balise-, loop-transmission system interfaces SCOPE : standardisation of air gap interfaces between balise loop and board antenna	CLC	2	C	X				Project A2	99-01	99-04	99-10	00-04	01-09
	31. (RA) Radio interfaces to trainborne and trackside equipment SCOPE : standardisation of interface mobile phone and radio module	CLC	2	C	X				Project A3	98-08	99-11	00-05	00-11	02-04

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
4.7 Ground to train radio	55. 55.1) Digital cellular telecommunications system (Phase 2+); Mobile Application Part (MAP) specification (GSM 09.02)	ETSI	1		GTS GSM 09.02				ASCI phase 3 event record	98-06	99-06	99-12	00-09	01-11
	55.2). Digital cellular telecommunications system (Phase 2+); Base Station Controller - Base Transceiver Station (BSC - BTS) interface; Layer 3 specification (GSM 08.58 version 5.7.0)	ETSI	1		GTS GSM 08.58				ASCI phase 3 security	98-06	99-06	99-12	00-09	01-11
	55.3). Digital cellular telecommunications system (Phase 2+); Voice Group Call Service (VGCS); Stage 2 (GSM 03.68)	ETSI	1		GTS GSM 03.68				ASCI phase 3 security	98-06	99-06	99-12	00-09	01-11
	55.4). Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 specification (GSM 04.08)	ETSI	1		GTS GSM 04.08				ASCI phase 3 security	98-06	99-06	99-12	00-09	01-11
	55.5). Digital cellular telecommunications system (Phase 2+); Voice Broadcast Service (VBS); Stage 2 (GSM 03.69)	ETSI	1		GTS GSM 03.69				ASCI phase 3 security	98-06	99-06	99-12	00-09	01-11
	55.6). Digital cellular telecommunications system (Phase 2+); Mobile-services Switching Centre - Base Station System (MSC - BSS) interface; Layer 3 specification (GSM 08.08 version 5.9.0)	ETSI	1		GTS GSM 08.08				ASCI phase 3 security	98-06	99-06	99-12	00-09	01-11
	55.7). Digital cellular telecommunications system (Phase 2+);	ETSI	1		GTS GSM				ASCI phase 3 security	98-06	99-06	99-12	00-09	01-11

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	Mobile Application Part (MAP) specification (GSM 09.02)				09.02									
	55.8). Follow me; Maintenance	ETSI	1			GSM 10.xy			Follow me	98-06	99-06	99-12	00-09	01-11
	55.9). Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms (GSM 01.04)	ETSI	1		GTS GSM 01.04				Follow me stage 1	98-06	99-06	99-12	00-09	01-11
	55.10). Digital cellular telecommunications system (Phase 2+); Man-Machine Interface (MMI) of the Mobile Station (MS) (GSM 02.30)	ETSI	1		GTS GSM 02.30				Follow me stage 1	98-06	99-06	99-12	00-09	01-11
	55.11). Digital cellular telecommunications system (Phase 2+); General on supplementary services (GSM 02.04)	ETSI	1		GTS GSM 02.04				Follow me stage 1	98-06	99-06	99-12	00-09	01-11
	55.12). Follow me Stage 2	ETSI	1			GSM 03.9x			Follow me stage 2	98-06	99-06	99-12	00-09	01-11
	55.13). Digital cellular telecommunications system (Phase 2+); Organization of subscriber data (GSM 03.08 version 6.0.0)	ETSI	1		GTS GSM 03.08				Follow me stage 2	98-06	99-06	99-12	00-09	01-11
	55.14). Follow me Stage 3	ETSI	1			GSM 04.09x			Follow me stage 3	98-06	99-06	99-12	00-09	01-11
	55.15). Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 Supplementary services specification Formats and coding (GSM	ETSI	1		GTS GSM 04.80				Follow me stage 3	98-06	99-06	99-12	00-09	01-11

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	04.80)													
	55.16). Digital cellular telecommunications system (Phase 2+); Mobile Application Part (MAP) specification (GSM 09.02)	ETSI	1		GTS GSM 09.02				Follow me stage 3	98-06	99-06	99-12	00-09	01-11
	55.17). Digital cellular telecommunications system (Phase 2+); Specification of the Subscriber Identity Module - Mobile Equipment (SIM - ME) interface; (GSM 11.11)	ETSI	1		GTS GSM 11.11				Follow me stage 3	98-06	99-06	99-12	00-09	01-11
	55.18). Follow me; Conformance Testing	ETSI	1			GSM			Follow me Testing	98-06	99-06	99-12	00-09	01-11
	55.19). Follow me; Event record	ETSI	1		GSM 12.05				Follow me O&M	98-06	99-06	99-12	00-09	01-11
	55.20). Follow me; Tracing	ETSI	1		GSM 12.08				Follow me O&M	98-06	99-06	99-12	00-09	01-11
	55.21). UUS; Maintenance	ETSI	1			GSM 10.xy			UUS	98-06	99-06	99-12	00-09	01-11
	55.22). Digital cellular telecommunications system (Phase 2+); Abbreviations and acronyms (GSM 01.04)	ETSI	1		GTS GSM 01.04				UUS stage 1	98-06	99-06	99-12	00-09	01-11
	55.23). Digital cellular telecommunications system (Phase 2+); Man-Machine Interface (MMI) of the Mobile Station (MS) (GSM 02.30)	ETSI	1		GTS GSM 02.30				UUS stage 1	98-06	99-06	99-12	00-09	01-11
	55.24). Digital cellular telecommunications system (Phase 2+);	ETSI	1			GTS GSM			UUS stage 1	98-06	99-06	99-12	00-09	01-11

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	User-to-User Signalling (UUS); Service description, Stage 1 (GSM 02.87 version 5.2.1)					02.87								
	55.25). Digital cellular telecommunications system (Phase 2+); General on supplementary services (GSM 02.04)	ETSI	1		GTS GSM 02.04				UUS stage 1	98-06	99-06	99-12	00-09	01-11
	55.26). UUS; Stage 2	ETSI	1			GSM 04.87			UUS stage 2	98-06	99-06	99-12	00-09	01-11
	55.27). Digital cellular telecommunications system (Phase 2+); Organization of subscriber data (GSM 03.08 version 6.0.0)	ETSI	1		GTS GSM 03.08				UUS stage 2	98-06	99-06	99-12	00-09	01-11
	55.28). Digital cellular telecommunications system (Phase 2+); Mobile Application Part (MAP) specification (GSM 09.02)	ETSI	1		GTS GSM 09.02				UUS stage 3	98-06	99-06	99-12	00-09	01-11
	55.29). Digital cellular telecommunications system (Phase 2+); Mobile radio interface layer 3 Supplementary services specification Formats and coding (GSM 04.80)	ETSI	1		GTS GSM 04.80				UUS stage 3	98-06	99-06	99-12	00-09	01-11
	55.30). UUS; Conformance Testing	ETSI	1			GSM			UUS Testing	98-06	99-06	99-12	00-09	01-11
	55.31). UUS; Event record	ETSI	1		GSM 12.05				UUS O&M	98-06	99-06	99-12	00-09	01-11
	55.32). UUS; Tracing	ETSI	1		GSM 12.08				UUS O&M	98-06	99-06	99-12	00-09	01-11

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	55.33). AT+ command set	ETSI	1		GSM 07.07				AT + commands	98-06	99-06	99-12	00-09	01-11
	32. (RA) Functional aspects of Driver-Machine Interfaces SCOPE : standardisation of interface between locomotive and driver	CLC	2	C	X				Project A4	98-08	99-11	00-05	00-11	02-04
	33. (RA) Interfaces to the Specific Transmission Modules SCOPE : standardisation of interfaces between specific transmission modules and European Kernel	CLC	2	C	X				Project A5	98-08	99-11	00-05	00-11	02-04
5. ROLLING STOCK 5.1 Trainset specifications														
5.1.2	34. Axle loads SCOPE: Test methods for verifying compliance with the requirements	CEN	2			X		X	UIC 518 UIC 660 Unless already covered by Subject No 41; See also Subject No 3	00-12	02-03	03-12	04-08	05-11
5.1.4	35. Spare coupler SCOPE: Performance requirements, specific interface geometry and test methods	CEN	1			X		X						
5.1.5, 5.1.8	36. Body frame strength SCOPE:	CEN	2		006		WG2		prEN 12663	-	-	98-12	99-09	00-11

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	Design requirements, code of calculations													
5.1.5	37. Passive safety, crash SCOPE: – Full size crash test – Numerical simulation requirements	CEN	2			X	WG2		UIC 660	00-12	02-03	03-12	04-08	05-11
5.1.6, 7.2.7a	38. Tightness and pressure of vehicles SCOPE: – Requirements for • Permissible pressure variations in trains • Measures taken to ensure permissible pressure variations	CEN	2			X	WG 2		UIC 660 See also Subject No 2	00-12	02-03	03-12	04-08	05-11
5.6.5, 7.2.8, 8.1.8	39. Doors, door control, emergency exits SCOPE: – Requirements for external doors of railways for all types of traffic concerning design and function to • Enable passengers and crew to safely gain access to and egress from trains • Minimise the risk of early or unintended opening • Ensure emergency exits and necessary tightness	CEN	2		112		WG27		UIC 560 UIC 660	99-06	00-09	02-06	03-03	04-05
	40. Aerodynamic characteristics, Passengers safety on platforms, safety along tracks	CEN					WG 6							

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	SCOPE: Definition of eventuality of danger, requirements of safety measures (see also Subject No 2)													
	a) Part 2: Aerodynamics on open tracks, general		2		026					98-08	99-11	01-08	02-05	03-07
	b) Part 4: Requirements and test methods for verification		2			X				99-12	01-03	02-12	03-09	04-11
	41. (RA)- Rolling stock - Test methods for rolling stock after completion and before entry into service - Requirements for Interoperability	CLC	2	B		X			Project B2 derived from EN 50215	98-06	98-10	99-06	99-12	01-05
5.2 Wheel-rail contact														
5.2.1, 5.2.2, 5.2.4, 5.2.6, 1.2.1, 1.2.2, 12.2.3, 1.2.5, 1.2.5a, 1.2.5b, 1.2.6, 1.2.8, 1.2.9	42. Running characteristics of vehicles on track	CEN												
	42.1 Wheel / rail interaction						WG 10		UIC 510-2 UIC 518					
	SCOPE: – General requirements and definitions – Performance requirements and test methods for • Running behaviour • Running ability													
	a) Part 1: Testing of running behaviour		2		016					-	99-03	00-12	01-09	02-11
	b) Part 2: Stationary tests		2		063					00-08	01-11	03-08	04-04	05-07
	c) Part 3: General requirements		2			X				00-12	02-03	03-12	04-08	05-11
	d) Part 4: Protection against derailment		1			X								
	42.2 Wheels						WG 11							
	a) Wheels - Product requirements including material specifications		2		114					-	-	99-11	00-08	01-10

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	b) Wheels - Definition of the flange and reverse slope standardized shapes		2			X				-	99-0	00-12	01-09	02-11
	42.3 Flange lubrication and vehicle mounted device performance and testing		1			X		X						
5.4 Braking														
5.4, 1.2.11, 3.8, 6;3	43. Braking systems of high speed trains SCOPE: – General requirements – Performance requirements – Test methods	CEN							UIC 540 to UIC 547					
	a) General requirements and definitions		1			X	WG 22							
	b) Performance requirements		1			X	WG 22							
	c) Test methods		1			X	WG 22							
	d) Components		1			X	WG 24							
	e) Performance calculations		1			X	WG 25							
5.6 Passenger safety														
5.6..2, 7.1.4	44. Fire protection SCOPE: – General requirements and definitions – Performance requirements and test methods for • Materials and components • fire barriers and partitions • railway rolling stock design	CEN	2			X	JWG (WG1)		UIC 564-2					
	a) Part 1: General rules		2		FP01					-	98-04	00-01	00-10	01-12

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
					(011)									
	b) Part 2: Requirements for fire behaviour of materials and components		2		FP02 (012)					99-06	00-09	02-06	03-03	04-05
	c) Part 3: Fire resistance requirements for fire barriers and partitions		2		FP03 (013)					-	98-04	00-01	00-10	01-12
	d) Part 4: Fire safety requirements for railway rolling stock design		2		FP04 (014)					99-02	00-05	02-02	02-11	04-01
	e) Part 5: Fire safety requirements for electrical equipment including that of trolley buses		2		FP07					-	98-04	00-01	00-10	01-12
	f) Part 6: Fire control and management systems		2		FP05 (025)					99-06	00-09	02-06	03-03	04-05
	g) Part 7: Fire safety requirements for flammable liquid and gas installations		2		FP06 (015)					00-06	01-09	03-06	04-03	05-05
5.6.3	45. Passenger alarm system SCOPE: Operating principles for the passenger alarm signal based on documents SAFI and NB 11	CEN	2			X	WG 22		UIC 660	00-06	01-09	03-06	04-03	05-05
	46. (RA) - Environmental conditions for equipment - Part 1 - Equipment on board rolling stock	CLC	2	A			WG B 4		Based on EN 50125-1	done	done	97-07	98-06	99-06
	47. Noise emission SCOPE: Measurement of noise emitted by railbound vehicles	CEN	2		007		WG 3			-	99-03	00-12	01-09	02-11
	48. Ground transmitted vibrations SCOPE: To be determined by AEIF group in order to ensure that specific requirements can be met	CEN	1			X	WG 3							

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	49. Hot box detectors	CEN	1		X			X						
	SCOPE: To be determined by AEIF group in order to ensure that specific requirements can be met													
	50. Noise emission	CEN					WG 3							
	SCOPE: Measurement of noise inside railbound vehicles													
	a) Measurement of noise		2		008					-	99-03	00-12	01-09	02-11
	b) Acoustic level for passenger compartment, inter coach passageway, telephon ..., drivers' cab		1			X								
	51. Seats	CEN	1			X		X						
	SCOPE: To be determined by AEIF group in order to ensure that specific requirements can be met													
	52. Air conditioning for rolling stock	CEN					WG 8							
	SCOPE: General requirements and definitions													
	- for main line rolling stock													
	a) Part 1: Comfort parameters		2		021				prEN 13129-1	-	-	99-08	00-05	01-07
	b) Part 2: Type test		2		022				prEN 13129-2	-	98-08	00-05	01-02	02-04
	- for driving cabs													
	c) Part 1: Comfort parameters		2		097					99-12	01-03	02-12	03-08	04-11

TSI/Interoperability Group, elements	SUBJECT	Compet.CEN/ CLC/ETSI	Category 1,2,3	Category A/B/C	Work Item		Working Group		Comments (or ref. Doc)	Target Dates				
					Exist.	New	Exist.	New		32	40	49	53	73
	d) Part 2: Type test		2		098					99-12	01-03	02-12	03-08	04-11
	53. Ride comfort for passengers - Measurement and evaluation	CEN	2		019		WG 7		ENV 12299	-	-	98-08	99-05	00-07
	54. Electrical lighting for rolling stock public transport systems SCOPE: – Specification of design criteria of electrical lighting systems in the interiors of railway vehicles for all operating conditions – Specification of minimum lighting levels	CEN	2		023		WG 9		prEN 13272	-	98-03	99-12	00-09	01-11