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INDUSTRY  
Industrial affairs I: Basic industries and ICT industries  
**Information and communication technology industries**  
**TCAM Secretariat**

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**Committee on «Standards and  
Technical Regulations»  
Doc. 42/99 - EN**

TCAM 1 (98) 17 (M/284)

**DRAFT STANDARDISATION MANDATE FORWARDED TO  
CEN/CENELEC/ETSI IN THE FIELD OF INFORMATION  
TECHNOLOGY AND TELECOMMUNICATIONS**

**TITLE**

Harmonised standards for the R&TTE Directive<sup>1</sup>.

**PURPOSE**

The purpose of this mandate is to establish a first set of Harmonised Standards<sup>2</sup> covering Radio Equipment and Telecommunications Terminal Equipment to be recognised under Directive 99/5/EC as giving a presumption of conformity with its requirements. Annex I contains the list of work items.

**JUSTIFICATION**

This mandate derives from Directive 99/5/EC. This Directive, following the New Approach on Technical Harmonisation and Standards<sup>3</sup>, defines the essential requirements R&TTE equipment must meet to be placed on the market and to be put into service for its intended purpose.

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<sup>1</sup> Directive 99/5/EC of the European Parliament and of the Council relating Radio Equipment and Telecommunications Terminal Equipment and the Mutual Recognition of their Conformity

<sup>2</sup> Art 2.(h) "harmonised standard" means a technical specification adopted by a recognised standards body under a mandate from the Commission in conformity with the procedures laid down in Directive 98/34/EC for the purpose of establishing a European requirement, compliance with which is not compulsory.

<sup>3</sup> Council Resolution of 7 May 1985 on a new approach concerning technical harmonisation and standardisation (85/C 136/01).

In preparing its role under the Directive ETSI has developed a work programme for the elaboration of such harmonised standards<sup>4</sup>. This work programme identifies activities to be pursued in technical areas where Harmonised Standards exist under 98/13/EC and which thus need to be reviewed as well as activities in other areas.

### **ORDER**

The European Standardisation Organisations are mandated to:

- Develop the standards contained in the work programme contained in Annex I;
- Report the progress of the work to the Commission at regular intervals and at least prior to each meeting of the TCAM<sup>5</sup>;
- Maintain the work programme to enable the Commission to issue further standardisation mandates.

### **RECOMMENDATIONS**

The experts should liaise intensively with regulatory bodies and their experts.

### **PROPOSED SCHEDULE**

March 2000 Adoption of harmonised standards
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### **ALIGNMENT WITH OTHER INTERNATIONAL WORK**

Where appropriate alignment with equivalent activities in the ITU and in ISO/IEC should be ensured.

### **STANDSTILL**

For the terms of Article 7 of the Directive 98/34/EC, the standstill applies for the standards developed within the present mandate.

### **PUBLICATION IN THE OFFICIAL JOURNAL**

A title and summary in the languages of the Community is required.

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<sup>4</sup> ETSI/OCG7(99)44Rev2 of 20 January 1999, ETSI Consolidated Work Programme under the proposed Radio & Telecommunications Terminal Equipment Directive

<sup>5</sup> Telecommunications Conformity Assessment and Market Surveillance Committee, which is the standing Committee set-up by the Directive.

## ANNEX I: WORK PROGRAMME

### Activity 1 - existing Harmonised Standards under 98/13/EC to be reviewed

TBR 1	Attachment requirements for terminal equipment to be connected to circuit switched data networks and leased circuits using a CCITT Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible with CCITT Recommendation X.21 but operating at any data signalling rate up to, and including, 1 984 kbit/s	To be combined with TBR 2 - EN 301 401 is in preparation
TBR 2	Attachment requirements for DTE to connect to PSPDNs for CCITT Recommendation X.25 interfaces at data signalling rates up to 1 920 kbit/s utilizing interfaces derived from CCITT Recommendations X.21 and X.21 bis	To be combined with TBR 1 - EN 301 401 is in preparation
TBR 3	Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access	
TBR 4	Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access	
TBR 5	Attachment requirements for GSM mobile stations; Access	
TBR 6	DECT General terminal attachment requirements	
TBR 7	ERMES Receiver requirements	
TBR 8	ISDN Telephony 3,1 kHz teleservice; Attachment requirements for handset terminals	
TBR 9	European digital cellular telecommunications system; Attachment requirements for GSM mobile stations; Telephony	
TBR 10	DECT; General terminal attachment requirements; Telephony applications	
TBR 11	Attachment requirements for terminal equipment for DECT PAP applications	Superseded by TBR22 – to be withdrawn

TBR 12	ONP technical requirements; 2 048 kbit/s digital unstructured leased line (D2048U); Attachment requirements for terminal equipment interface	
TBR 13	2 048 kbit/s digital structured leased lines (D2048S); Attachment requirements for terminal equipment interface	
TBR 14	64 kbit/s digital unrestricted leased line with octet integrity (D64U); Attachment requirements for terminal equipment interface	
TBR 15	Ordinary and Special quality voice bandwidth 2-wire analogue leased lines (A2O and A2S); Attachment requirements for terminal equipment interface	
TBR 17	Ordinary and Special quality voice bandwidth 4-wire analogue leased lines (A4O and A4S); Attachment requirements for terminal equipment interface	
TBR 19	Attachment requirements for GSM mobile stations; Access	
TBR 20	Attachment requirements for GSM mobile stations; Telephony	
TBR 21	Attachment requirements for pan-European approval for connection to the analogue PSTNs of TE (excluding TE supporting the voice telephony service) in which network addressing, if provided, is by means of DTMF signalling	
TBR 22	Attachment requirements for terminal equipment for DECT GAP applications	
TBR 23	Technical requirements for TFTS	
TBR 24	34 Mbit/s digital unstructured and structured leased lines (D34U and D34S); Attachment requirements for terminal equipment interface	
TBR 25	140 Mbit/s digital unstructured and structured leased lines (D140U and D140S); Attachment requirements for terminal equipment interface	
TBR 26	Low data rate LMES operating in the 1,5/1,6 GHz frequency bands	EN 301 426 in preparation
TBR 27	Low data rate LMES operating in the 11/12/14 GHz frequency bands	
TBR 28	VSAT Transmit-only, transmit/receive or receive-only satellite earth stations operating in the 11/12/14 GHz frequency bands	
TBR 30	SNG TES operating in the 11-12/13-14 GHz frequency bands	
TBR 31	Attachment requirements for mobile stations in the DCS 1 800 band and additional GSM 900 band; Access	
TBR 32	Attachment requirements for mobile stations in the DCS 1 800 band and additional GSM 900 band; Telephony	
TBR 33	Attachment requirements for packet mode terminal equipment to connect to an ISDN using ISDN basic access	
TBR 34	Attachment requirements for packet mode terminal equipment to connect to an ISDN using ISDN primary rate access	

TBR 35	Emergency access for TETRA	EN 301 435-1 (Emergency access) and EN 301 435-2 (Civil access) in preparation
TBR 36	DECT access to GSM PLMNs for 3,1 kHz speech applications	
EN 301 437 (TBR 37)	Attachment requirements for pan-European approval for connection to the analogue PSTNs of TE supporting the voice telephony service in which network addressing, if provided, is by means of DTMF signalling	In preparation
TBR 38	Attachment requirements for a terminal equipment incorporating an analogue handset function capable of supporting the justified case service when connected to the analogue interface of the PSTN in Europe	
EN 301 439	DECT/GSM dual mode	
TBR 40	Attachment requirements for terminal equipment for DECT/ISDN interworking profile applications	Superseded by EN 301 440
TBR 41	MES including handheld earth stations, for S-PCN in the 1,6/2,4 GHz bands under the MSS; Terminal essential requirements	
TBR 42	MES including handheld earth stations, for S-PCN in the 2,0 GHz bands under the MSS; Terminal essential requirements	
TBR 43	VSAT transmit-only, transmit-and-receive, receive-only satellite earth stations operating in the 4 GHz and 6 GHz frequency bands	
TBR 44	LMES operating in the 1,5 GHz and 1,6 GHz bands providing voice and/or data communications	

**Activity 2 - Technical areas where Harmonised Standards do not exist under 98/13/EC**

**Activity 2.1 - Standards used for national type approval purposes to be reviewed**

Maritime Mobile radio:

TS	101 089	VHF distress radio equipment operating on aeronautical frequencies
ETS	300 065	NAVTEX equipment
ETS	300 066	406 MHz EPIRB
ETS	300 067	Radiotelex operating in MF/HF
EN	300 152	EPIRBs on 121.5 MHz and 243 MHz
EN	300 162	VHF radiotelephone
ETS	300 225	Portable VHF for survival craft
EN	300 338	Digital Selective Calling
ETS	300 372	1,6 GHz EPIRB
ETS	300 373	Maritime MF/HF transmitters & receivers
ETS	300 441	2182 kHz watch receivers
ETS	300 460	<u>Inmarsat 'C' EGC Receivers for distress &amp; safety purposes<sup>6</sup></u>
ETS	300 698	VHF radiotelephones for use on inland waterways
ETS	300 720	UHF on-board communications systems
ETS	<u>300 740</u>	<u>Inmarsat 'C' EGC Receivers not intended for distress &amp; safety purposes<sup>6</sup></u>
EN	301 025	VHF equipment for general communication (& class 'D' DSC)
EN	301 033	DSC watchkeeping receivers for MF, MF/HF and VHF
EN	301 178	Portable VHF radio telephone equipment (non-GMDSS)
NOTE: much of this equipment is covered by the Marine Equipment Directive (96/98/EC). Equipment which is not subject to compulsory fitment and approval under the SOLAS convention comes under the R&TTE Directive (e.g. Maritime VHF equipment sold for fitment to pleasure craft).		

Aeronautical radio (ground stations)

ETS	300 326-2	TFTS Radio Interface
ETS	300 676	AM radio
NOTE: Equipment intended for air traffic management is excluded from the R&TTE Directive. Other equipment (e.g. TFTS) will come under the R&TTE Directive. It is unclear whether airborne TFTS used for ACARS (Aircraft Communications Addressing and Reporting System) would fall under Council Regulation 3922/91 or the R&TTE Directive.		

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<sup>6</sup> Added at the request of RegTP

## Land mobile radio

### Private/Professional Mobile Radio (non-trunked)

ETS	300 086	Equipment with an external antenna connector intended primarily for analogue speech
ETS	300 113	Equipment with an external antenna connector intended for transmission of data and speech
I-ETS	300 219	Radio equipment transmitting signals to initiate a specific response in the receiver
ETS	300 296	Equipment with an integral antenna connector intended primarily for analogue speech
ETS	300 341	Radio equipment with an integral antenna transmitting signals to initiate a specific response in the receiver
ETS	300 390	Equipment with an integral antenna connector intended for transmission of data and speech
ETS	300 471	Transmission of data on shared channels
EN	301 166	Equipment working on narrowband channels
EN	301 391	Access for short-range devices

### Trunked Radio

	(none)	
NOTE:	TETRA requirements are covered in TBR 35, EN 301 435-1 and EN 300 435-2 for 98/13/EC.	

### Citizens Band Radio

ETS	300 135	Angle-modulated CB radio equipment
ETS	300 433	DSB/SSB amplitude-modulated CB equipment

### Commercially-available Amateur Radio Equipment

ETS	300 684	Commercially available Amateur Radio Equipment
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### Paging Systems

ETS	300 133-6	ERMES base station conformance specification
ETS	300 224	On-site paging
ETS	300 719-1	Private Wide-Area Paging

### Short Range Devices

EN	300 674 (NOTE)	Road Transport & Traffic Telematics
ES	200 674-1 (NOTE)	Road Transport & Traffic Telematics
ES	200 674-2 (NOTE)	Road Transport & Traffic Telematics
EN	300 220-1	Short-Range Devices 25 MHz - 1000 MHz
EN	300 220-2	Short-Range Devices 25 MHz - 1000 MHz
EN	300 330	Short range devices operating below 25 MHz
EN	300 440	Short range devices operating above 1000 MHz
EN	300 422	Wireless Microphones
EN	301 357	Cordless wideband audio devices (CEPT bands)
EN	301 091	77 GHz Automotive Radar
EN	300 761	Automatic Vehicle Ident. for railways
ETS	300 454	Wideband audio links
ETS	300 718	Avalanche Beacons
NOTE: Co-ordination will be necessary between ETSI and CEN.		

### Cellular Radio Telephony

ETS	300 609-1	to be superseded by EN 301 087
ETS	300 609-4	GSM repeaters
EN	301 087	GSM base stations
NOTE: Requirements for GSM mobile stations are covered by existing Harmonised Standards.		

### Cordless Telecommunications

ETS	300 235	CT-1
I-ETS	300 131	CT-2
EN	TBD	DECT Radio in the Local Loop

### Radio Local Area Networks

ETS	300 328	2,45 GHz high-speed data systems using spread-spectrum
ETS	300 836-1	HIPERLAN 1 – Radio Type Approval and RT Conformance Test Specification
EN	TBD	HIPERLAN/2 - Essential Requirements under the R&TTE Directive..
Note: It should be considered to make a single document addressing all RLANs – possibly with multiple annexes to address differences where relevant (like operating frequency and transmitter RF power limits.		

Fixed Radio Links, Fixed Wireless Access

EN	TBD	HIPERACCESS
Note: It should be possible to write a single document that addresses the essential requirements for all HIPERACCESS systems with multiple annexes to address differences like operating frequency and RF power limits.		

ETS/EN	300 197	Parameters for radio relay systems for the transmission of digital signals and analogue video signals operating at 38 GHz
ETS/EN	300 198	Parameters for radio relay systems for the transmission of digital signals and analogue video signals operating at 23 GHz
ETS/EN	300 234	High capacity digital radio-relay systems carrying 1 x STM-1 signals and operating in frequency bands with about 30 MHz channel spacing and alternated arrangements
ETS/EN	300 407	Parameters for radio-relay systems for the transmission of digital signals and analogue video signals operating around 55 GHz
ETS/EN	300 408	Parameters for radio-relay systems for the transmission of digital signals and analogue video signals operating at around 58 GHz, which do not require frequency planning
ETS/EN	300 431	Digital fixed point-to-point radio link equipment operating in the frequency range 24.25 to 29.5 GHz
ETS/EN	300 630	Low capacity point to point digital radio relay systems in the 1.5 GHz band
ETS/EN	300 632	Fixed radio link equipment for the transmission of analogue video signals operating in the frequency range 24.5 to 29.5 GHz
ETS/EN	300 633	Low and medium capacity point-to-point digital radio relay systems operating in the 2.1 to 2.6 GHz frequency band
ETS/EN	300 636	TDMA point-to-multipoint digital radio systems in the frequency range 1 to 3 GHz
ETS/EN	300 638	Fixed point-to-point radio link equipment for the transmission of digital signals and analogue video signals operating at frequency bands with 20 MHz alternate channel spacing
ETS/EN	300 639	Sub STM-1 digital radio relay systems (DRRS) operating in the 13 GHz, 15 GHz and 18 GHz frequency band
EN	301 021	Low capacity point-to-multipoint digital radio relay systems in the frequency range 3 to 11 GHz
EN	301 055	DS-CDMA point to multipoint digital systems in the band 1 to 3 GHz
prETS/EN	300 430	High capacity digital radio relay systems carrying 1 x STM-1 signals operating in the 18 GHz frequency band with channel spacing of 55 MHz

prETS/EN	300 786	Sub STM-1 digital radio relay systems with copolar channel spacing of about 14 MHz in the 13, 15 and 18 GHz bands
prEN	301 080	FDMA point-to-multipoint digital radio relay systems in the bands 3 to 11 GHz
prEN	301 124	DS-CDMA point-to-multipoint digital systems in the band 3 to 11 GHz
prEN	301 128	PDH low and medium capacity digital radio relay systems operating in the frequency bands 13, 15 and 18 GHz
prEN	301 129	Additional system performance monitoring parameters of SDH digital radio relay systems
prEN	301 179	FH-CDMA point to multipoint digital systems in the band 1 - 3 GHz
prEN	301 213-1	P-MP DRRSs in the bands 24.25 to 29.5 GHz using different access methods; - Part 1: Basic parameters
prEN	301 213-2	P-MP DRRSs in the bands 24.25 to 29.5 GHz using different access methods; - Part 2: FDMA methods
prEN	301 216	PDH low and medium capacity and sub STM-1 digital radio relay systems operating in the frequency bands 3 to 11 GHz
prEN	301 253	FH-CDMA point to multipoint digital systems in the band 3 - 11 GHz
prEN	301 277	High capacity digital radio relay systems transmitting 4 x STM-1 (STM-4) in a 40 MHz radio frequency channel using co-channel dual polarised operation (CCDP)
prEN	301 373	FDMA point-to-multipoint digital radio relay systems in the band 1 to 3 GHz
DraftEN	301 213-3	P-MP DRRSs in the bands 24.25 to 29.5 GHz using different access methods; - Part 3: TDMA methods
draftEN	DEN/TM-4047	PDH low and medium capacity digital radio relay systems operating in the frequency band 48.5 to 50.2 GHz
DraftEN	DEN/TM-4055	Point to multipoint digital radio systems below 1 GHz
DraftEN	DEN/TM-4064	High capacity DRRS carrying 2 x STM-1 in frequency bands with about 30 MHz channel spacings using co-channel dual-polarized (CCDP) operation
DraftEN	DEN/TM-4065	High capacity DRRS carrying STM-4 in two 40 MHz channels or 2 x STM-1 in 40 MHz channel with alternate channel arrangement
DraftEN	DEN/TM-4066	High capacity DRRS carrying 2 x STM-1 in frequency bands with 40 MHz channel spacings using co-channel dual-polarized (CCDP) operation

DraftEN	DEN/TM-4067	High capacity DRRS carrying 4 x STM-1 in 80 MHz channels or 2 x STM-1 in 40 MHz channel with alternate channel arrangement
DraftEN	DEN/TM-4080	Direct Sequence Code Division/Time Division Multiple Access (DS- CD/TDMA) point-to-multipoint digital radio relay systems in the range 3 to 11 GHz
ETS/EN	300 631	Antennas for point-to-point radio links in band 1 to 3 GHz
prETS/EN	300 833	Antennas used in point-to-point radio relay systems operating in frequency bands from 3 to 60 GHz'
prEN	301 215-1	Antennas for use in point to multipoint systems in the 11 - 60 GHz band" General part 1
prEN	301 215-2	Antennas for use in point to multipoint systems in the 11 - 60 GHz band" Part 2 - 24.5 to 29.5 GHz
DraftEN	DEN/TM-4049	Antennas for use in P-MP radio systems in the 3 to 11 GHz band
DraftEN	DEN/TM-4060	Antennas for point to multipoint radio links in the bands 1 - 3 GHz
prEN	301 126-1	Conformance testing for radio relay systems; - Part 1: P-P equipment parameters
draftEN	301 126-2-x	Conformance testing for radio relay systems; - Part 2-x: P-MP equipment parameters
draftEN	301 126-3-1	Conformance testing for radio relay systems; - Part 3-1: P-P Antenna specific parameters'
draftEN	301 126-3-2	Conformance Test for Digital Radio Relay Systems; Part 3-2 -Point-to-Multipoint Antenna Specific Parameters
DraftEN	DEN/TM-4040	Spurious emissions and receiver immunity at equipment antenna port of DRRSs

#### Broadcasting Transmitters

ETS	300 384	VHF FM Sound broadcasting transmitters
ETS	300 401	Digital Audio Broadcasting
ETS	300 744	Digital terrestrial TV
ETS	300 750	VHF FM Sound broadcasting transmitters in the 66 to 73 MHz band

Satellite Earth Stations

EN	301 358	GEO SUT Ka Band (1)
EN	301 359	GEO SIT Ku/Ka Band
EN	301 360	GEO SUT Ka Band (1')
EN	300 721	Little LEO
EN		S-UMTS
EN		NGSO Ka Band
EN		NGSO Ku Band

**Activity 2.2: New areas for which no EN exists covering essential requirements**

Emerging technologies

EN		Digital Subscriber Line technologies (e.g. HDSL, ADSL, VDSL)
EN		Telecommunications on power lines (note 2)
EN		Telecommunications on Cable TV networks (note 3)
EN		Optical interfaces
EN		Digital Video Broadcasting
EN		UMTS
<p>NOTE 1: ATA draft TR 101 389 is investigating the impact of the R&amp;TTE Directive on Wired Terminal interfaces. Part 5 of this report is studying new technologies. The approval of this report is foreseen for March 1999.</p> <p>NOTE 2: Co-ordination with CENELEC SC210A-WG1 will be necessary.</p> <p>NOTE 3: Co-ordination with CENELEC TC 209 will be necessary.</p>		

Other areas

EN		Measures for the protection of health or safety of users or other persons, additional to those contained in Directive 73/23/EEC
NOTE: Co-ordination with CENELEC / CEN will be necessary.		