

**Access and Terminals (AT);  
Study of the global usage and acceptance  
of non-radio TBRs and associated documents**

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Reference

DTR/AT-000001

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Keywords

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## Foreword

This Technical Report (TR) has been produced by ETSI Technical Committee Access and Terminals (AT).

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## Introduction

In Europe the full basic harmonization of terminal interfaces to be connected to the Public Telephone Network was achieved with great success by ETSI under the "TBR-" or "TTE-regime" (EU Directives 91/263/EEC [4] and 98/13/EEC [5]). A consequence is that an increasing number of National Authorities and organizations worldwide are using these basic standards for regulation and procurement purposes.

The recent change of regulatory regime in Europe determined a significant modification in the legal status and therefore in the formal dimension of TBRs. Notwithstanding this, the value of the technical content of TBRs has a significant global dimension being referenced directly or indirectly in many documents.

The evaluation of the geographical impact is important for ETSI to evaluate the worldwide consequences of any possible future action in the area.

To facilitate the co-existence of new technologies with the existing infrastructure there is a need for an effective and quick mechanism for the maintenance of TBRs and related documents.

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# 1 Scope

The present document:

- performs a study of the global usage and acceptance of non-radio TBRs and related documents,
- identifies the implications of any change to the existing TBRs or related documents;
- gives guidance on future handling of the content of these documents.

NOTE: Annex A lists documents within the scope of the present document

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# 2 References

For the purposes of this Technical Report (TR) the following references apply:

- [1] ETSI TR 103 000-1: "Access and Terminals (AT); Analogue Access to Public Telephone Network; Advisory Notes to Standards Harmonizing Terminal Interface; Part 1: List of all Advisory Notes".
- [2] ETSI TR 103 050: "Access and Terminals (AT); Digital Access to Public Telephone Networks; Applicability of ITAAB Advisory Notes to TBRs".
- [3] ETSI EG 201 121: "A guide to the application of TBR 21".
- [4] Council Directive 91/263/EEC of 29 April 1991 on the approximation of the laws of the Member States concerning telecommunications terminal equipment, including the mutual recognition of their conformity.
- [5] Directive 98/13/EC of the European Parliament and of the Council of 12 February 1998 relating to telecommunications terminal equipment and satellite earth station equipment, including the mutual recognition of their conformity.
- [6] Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity.
- [7] ETSI EN 301 401: "Attachment requirements for Data Terminal Equipment (DTE) to connect to public networks that have physical and electrical network presentations based upon the ITU-T V-series of Recommendations".
- [8] ETSI EN 301 437: "Terminal Equipment (TE); Attachment requirements for pan-European approval for connection to the analogue Public Switched Telephone Networks (PSTNs) of TE supporting the voice telephony service in which network addressing, if provided, is by means of Dual Tone Multi Frequency (DTMF) signalling".
- [9] ETSI ES 201 187: "2-wire analogue voice band interfaces; Loop Disconnect (LD) dialling specific requirements".
- [10] ETSI ES 200 677: "Public Switched Telephone Network (PSTN); Requirements for handset telephony".
- [11] ETSI EN 301 440: "Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment for DECT/ISDN interworking profile applications".
- [12] ETSI ETS 300 418: "Business TeleCommunications (BTC); 2 048 kbit/s digital unstructured and structured leased lines (D2048U and D2048S); Network interface presentation".
- [13] ETSI ETS 300 288: "Business TeleCommunications (BTC); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Network interface presentation".

- [14] ETSI ETS 300 686: "Business TeleCommunications (BTC); 34 Mbit/s and 140 Mbit/s digital leased lines (D34U, D34S, D140U, D140S); Network interface presentation".
- [15] ETSI ETS 300 247: "Business Telecommunications (BT); Open Network Provision (ONP) technical requirements; 2 048 kbit/s digital unstructured leased line (D2048U) Connection characteristics".
- [16] ETSI ETS 300 419: "Business TeleCommunications (BTC); 2 048 kbit/s digital structured leased lines (D2048S); Connection characteristics".
- [17] ETSI ETS 300 766: "Business TeleCommunications (BTC); Multiple 64 kbit/s digital unrestricted leased lines with octet integrity presented at a structured 2 048 kbit/s interface at either or both ends (D64M); Connection characteristics and network interface presentation".
- [18] ETSI ETS 300 289: "Business TeleCommunications (BTC); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Connection characteristics".
- [19] ETSI ETS 300 448: "Business TeleCommunications (BTC); Ordinary quality voice bandwidth 2-wire analogue leased line (A2O); Connection characteristics and network interface presentation".
- [20] ETSI ETS 300 449: "Business TeleCommunications (BTC); Special quality voice bandwidth 2-wire analogue leased line (A2S); Connection characteristics and network interface presentation".
- [21] ETSI ETS 300 451: "Business TeleCommunications (BTC); Ordinary quality voice bandwidth 4-wire analogue leased line (A4O); Connection characteristics and network interface presentation".
- [22] ETSI ETS 300 452: "Business TeleCommunications (BTC); Special quality voice bandwidth 4-wire analogue leased line (A4S); Connection characteristics and network interface presentation".
- [23] ETSI ETS 300 687: "Business TeleCommunications (BTC); 34 Mbit/s digital leased lines (D34U and D34S); Connection characteristics".
- [24] ETSI ETS 300 688: "Business TeleCommunications (BTC); 140 Mbit/s digital leased lines (D140U and D140S); Connection characteristics".
- [25] ITU-T Recommendation X.21: "Interface between Data Terminal Equipment and Data Circuit-terminating Equipment for synchronous operation on public data networks".
- [26] ETSI TBR 001 (Edition 1): "Terminal Equipment (TE); 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".
- [27] ETSI TBR 002 (Edition 1): "Digital Terminals and Access (DTA); Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (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".
- [28] ETSI TBR 003 (Edition 1): "Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access".
- [29] ETSI TBR 003/A1 (Edition 1): "Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN basic access".
- [30] ETSI TBR 004 (Edition 1): "Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access".
- [31] ETSI TBR 004/A1 (Edition 1): "Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access".
- [32] ETSI TBR 008 (Edition 1): "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice; Attachment requirements for handset terminals".

- [33] ETSI TBR 008 (Edition 2): "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice; Attachment requirements for handset terminals".
- [34] ETSI TBR 008/C1 (Edition 1): "Integrated Services Digital Network (ISDN); Telephony 3,1 kHz teleservice; Attachment requirements for handset terminals".
- [35] ETSI TBR 012 (Edition 1): "Business Telecommunications (BT); Open Network Provision (ONP) technical requirements; 2 048 kbit/s digital unstructured leased line (D2048U) Attachment requirements for terminal equipment interface".
- [36] ETSI TBR 012/A1 (Edition 1): "Business TeleCommunications (BTC); Open Network Provision (ONP) technical requirements; 2 048 kbit/s digital unstructured leased line (D2048U); Attachment requirements for terminal equipment interface".
- [37] ETSI TBR 013 (Edition 1): "Business TeleCommunications (BTC); 2 048 kbit/s digital structured leased lines (D2048S); Attachment requirements for terminal equipment interface".
- [38] ETSI TBR 014 (Edition 1): "Business TeleCommunications (BTC); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Attachment requirements for terminal equipment interface".
- [39] ETSI TBR 014/A1 (Edition 1): "Business TeleCommunications (BTC); 64 kbit/s digital unrestricted leased line with octet integrity (D64U); Attachment requirements for terminal equipment interface".
- [40] ETSI TBR 015 (Edition 1): "Business TeleCommunications (BTC); Ordinary and Special quality voice bandwidth 2-wire analogue leased lines (A2O and A2S); Attachment requirements for terminal equipment interface".
- [41] ETSI TBR 017 (Edition 1): "Business TeleCommunications (BTC); Ordinary and Special quality voice bandwidth 4-wire analogue leased lines (A4O and A4S); Attachment requirements for terminal equipment interface".
- [42] ETSI TBR 021 (Edition 1): "Terminal Equipment (TE); Attachment requirements for pan-European approval for connection to the analogue Public Switched Telephone Networks (PSTNs) of TE (excluding TE supporting the voice telephony service) in which network addressing, if provided, is by means of Dual Tone Multi Frequency (DTMF) signalling".
- [43] ETSI TBR 024 (Edition 1): "Business TeleCommunications (BTC); 34 Mbit/s digital unstructured and structured leased lines (D34U and D34S); Attachment requirements for terminal equipment interface".
- [44] ETSI TBR 025 (Edition 1): "Business TeleCommunications (BTC); 140 Mbit/s digital unstructured and structured leased lines (D140U and D140S); Attachment requirements for terminal equipment interface".
- [45] ETSI TBR 033: "Integrated Services Digital Network (ISDN); Attachment requirements for packet mode terminal equipment to connect to an ISDN using ISDN basic access".
- [46] ETSI TBR 034 (Edition 1): "Integrated Services Digital Network (ISDN); Attachment requirements for packet mode terminal equipment to connect to an ISDN using ISDN primary rate access".
- [47] ETSI TBR 038: "Public Switched Telephone Network (PSTN); 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".
- [48] ETSI TBR 010: "Digital Enhanced Cordless Telecommunications (DECT); General Terminal Attachment Requirements; Telephony Applications".
- [49] ETSI TBR 040: "Digital Enhanced Cordless Telecommunications (DECT); Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment for DECT/ISDN interworking profile applications".



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## 3 Definitions and abbreviations

### 3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

**TBR:** Technical Basis for Regulation under the EU Directives 91/263/EEC [4] and 98/13/EC [5]; in the present document equivalent to deliverables of the series EN 301 4xx when mandated by CEC.

### 3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

AN	Advisory Note
ATAAB	Analogue Type Approval Advisory Board
CEC	Commission of the European Community
CTR	Common Technical Requirement
DR	Direct Reference within legislation
DTAAB	DECT Type Approval Advisory Board
EEA	European Economic Area
EU	European Union
IR	Indirect Reference within legislation
ISDN	Integrated Services Digital Network
ITAAB	ISDN Type Approval Advisory Board
NPI	No Planned Implementation
PTO	Public Telecommunication Operator
TAAB	Type Approval Advisory Board
TBR	Technical Basis for Regulation
TE	Terminal Equipment
TEC	Type Examination Certificate
TRAC	Technical Regulations Application Committee
TTE	Telecommunications Terminal Equipment

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## 4 Research on current applications of TBRs

### 4.1 Strategy adopted

Two surveys were conducted to provide an indication of the extent of use of TBRs and related documents.

The first survey was initially sent to AT members, members of related ETSI committees; members of TRAC; and members of the associated TAABs (ATAAB and ITAAB). The returned information was then be analysed and a second survey produced to clarify and extend the information obtained from the first. This second survey has been sent out to Administrations, regulators, Operators, and other interested organizations outside the European Community.

Additionally other interested parties e.g. R&TTE-CA and other industry groups were invited (as appropriate) to contribute.

## 4.2 Phase 1 questionnaire

### 4.2.1 Summary of phase 1 questionnaire

The recipient of the survey was requested to complete the following information for each non-Radio TBR for which they hold related information:

- **Admin/Organization:** Names of all organizations known to make use of the TBR.
- **Type:** Type of Organization.
- **Date of Info:** When this information was last checked.
- **No of users:** Number of terminal/year using this interface type.
- **Reference and type of reference to TBR:** TBR reference number with reason for reference.
- **Additional Requirements:** List standard where the organization applies additional requirements.
- **TAAB Notes:** Indication of whether and what TAAB notes are accepted/required.
- **Test Reports:** Acceptable sources of test reports.
- **Certificates:** Indication of the types of certificate accepted.

### 4.2.2 Summary of answers obtained to phase 1 questionnaire

Responses were received from 10 sources including manufacturers, a certifier, PTOs and administrations.

Table 1 lists the responses received in TBR order.

**Table 1: Phase 1 questionnaire response summary**

TBR	No of Countries	No of Admin	No of PTO	No of Others	Comments
TBR 001 [26]	8	7		1	
TBR 002 [27]	8	7		1	
TBR 003 [28]	41	39	1	1	
TBR 004 [30]	38	36	1	1	
TBR 008 [33]	3	2		1	
TBR 012 [35]	26	25	1		
TBR 013 [37]	26	25	1		
TBR 014 [38]	7	7			
TBR 015 [40]	2	2			
TBR 017 [41]	2	2			
TBR 021 [42]	23	20	2	1	
TBR 024 [43]	21	21			
TBR 025 [44]	6	6			
TBR 033 [45]	1	1			
TBR 034 [46]	1	1			
TBR 038 [47]	4	2	1	1	
EN 301 401 [7]	2	2			
EN 301 437 [8]	3	3			
I-CTR 37 (TBR21 +)	3	3			

Table 2 lists the countries in which TBRs are declared to be used and the number of TBRs that they are reported to use.

**Table 2: Phase 1 questionnaire TBR usage summary by country**

Country	Referenced TBRs	Comments
Albania	3,4,12,13,24,25,	
Argentina	3,4,12,13,21,	
Australia	3,4,	
Belarus	3,4,12,13,21,24,	
Brazil	3,4,12,21,24,	
Bulgaria	1,2,3,4,12,13,14,21,24,	
Chile	3,4,21,	
China (Peoples Republic)	3,4,12,13,	
Columbia	3,	
Costa Rica	3,4,	
Croatia	3,4,12,13,24,25,	
Cyprus	3,4,12,13,14,21,24,	
Czech	1,2,3,4,8,12,13,14,15,17,21,24,33,34,38, EN 301 401 [7], EN 301 437 [8], I-CTR 37	
Ecuador	21	
France	21,38,	
Hong Kong	3,4,	
Hungary	3,4,12,13,21,24,25,	
Iceland	3,21,24,	
Indonesia	3,4,	
Ireland	1,2,3,4,8,21,38,	
Israel	3,4,12,13,21,	
Jordan	2,12,13,24,	
Korea	3,4,	
Latvia	1,2,3,4,12,13,14,24,	
Lithuania	3,4,12,13,24,	
Malaysia	3,4,	
Mexico	3,4,12,13,21,24,	
Morocco	3,4,12,13,24,	
New Zealand	3,4,	
Norway	21,	
Pakistan	1,3,4,8,21,38, EN 301 437 [8], I-CTR 37	
Peru	3,4,12,13,21,	
Poland	3,4,12,13,24,	
Romania	1,2,3,4,12,13,14,15,17,21,24,25,	
Russia	3,4,12,13,24,	
Senegal	1,2,3,4,12,13,14,24,25,	
Singapore	3,4,	
Slovak Republic	3,4,12,13,21,24,	
Slovenia	3,4,12,13	
South Africa	1,2,3,4,12,13,14,21,24,25, EN 301 401 [7]	
Taiwan	3,4,	
Thailand	3,4,	
Tunisia	3,4,12,13,21,	
U.A.E.	34,12,13,21, EN 301 437 [8], I-CTR 37	
United Kingdom	21	

The following organizations have issued statements related to TBRs:

**Table 3: Phase 1 questionnaire summary of statements**

<b>Organization</b>	<b>Summary of statement</b>
Denmark (National Telecom Agency)	Believe TBRs contain valuable information on Terminal equipment manufacture.
Switzerland (OFCOM)	Believe TBRs contain valuable information on Terminal equipment manufacture.

### 4.2.3 Preliminary analysis

Some specific TBRs are formally cited in regulation in non-EEA countries.

There is also evidence of TBRs being used for procurement, voluntary certification, and network compatibility, including declarations required under article 4.2 of the R&TTE Directive 1999/5/EC [6].

These preliminary findings support the initiative of the phase one questionnaire and the intended recipients.

## 4.3 Phase 2 questionnaire

### 4.3.1 Summary of phase 2 questionnaire

The purpose of the second questionnaire was to establish the degree of acceptance and usage of non-Radio TBRs. Recipients of the second questionnaire included contacts from the following types of organizations:

- 1) Administrations (Regulators and Certification/Type Approval Authorities)
- 2) National Standards Organizations
- 3) Fixed Network Operators

A total of 604 contacts from 374 organizations in 135 countries have been sent the questionnaire, of which 241 contacts from 104 organizations were also emailed the questionnaire.

A relatively low response to this extensive mailing was achieved, where the summary of the responses are given in clause 4.3.2

Table 4 lists the 135 countries of the recipients that have been sent the phase 2 questionnaire:

**Table 4: Recipient countries sent phase 2 questionnaire**

Recipient Countries sent Phase 2 Questionnaire		
Afghanistan (AF)	Ghana (GH)	Nigeria (NG)
Albania (AL)	Gibraltar (GI)	Oman (OM)
Algeria (DZ)	Grenada (GD)	Pakistan (PK)
Angola (AO)	Guinea-Bissau (GW)	Panama (PA)
Antigua and Barbuda (AG)	Guyana (GY)	Peru (PE)
Argentina (AR)	Haiti (HT)	Philippines (PH)
Armenia (AM)	Hong Kong (HK)	Poland (PL)
Aruba (AW)	Hungary (HU)	Puerto Rico (PR)
Australia (AU)	Iceland (IS)	Qatar (QA)
Azerbaijan (AZ)	India (IN)	Romania (RO)
Bahamas (BS)	Indonesia (ID)	Russia (RU)
Bahrain (BH)	Iran (IR)	Rwanda (RW)
Bangladesh (BD)	Israel (IL)	Saint Helena (SH)
Barbados (BB)	Jamaica (JM)	Saint Vincent and the Grenadines (VC)
Belarus (BY)	Japan (JP)	Samoa (WS)
Belize (BZ)	Jordan (JO)	Saudi Arabia (SA)
Benin (BJ)	Kazakhstan (KZ)	Senegal (SN)
Bermuda (BM)	Kenya (KE)	Sierra Leone (SL)
Bhutan (BT)	Kiribati (KI)	Singapore (SG)
Bosnia and Herzegovina (BA)	Korea, North (KP)	Slovak Republic (SK)
Botswana (BW)	Korea, South (KR)	Slovenia (SI)
Brazil (BR)	Kuwait (KW)	Solomon Islands (SB)
Brunei Darussalam (BN)	Kyrgyz (KG)	Somalia (SO)
Bulgaria (BG)	Latvia (LV)	South Africa (ZA)
Burkina Faso (BF)	Lebanon (LB)	Sri Lanka (LK)
Cameroon (CM)	Lesotho (LS)	Suriname (SR)
Cayman Islands (KY)	Liberia (LR)	Taiwan (TW)
Chile (CL)	Lithuania (LT)	Tajikistan (TJ)
China (CN)	Macau (MK)	Tanzania (TZ)
Colombia (CO)	Macedonia (MK)	Thailand (TH)
Costa Rica (CR)	Madagascar (MG)	Togolese Republic (TG)
Croatia (HR)	Malawi (MW)	Tonga (TO)
Cuba (CU)	Malaysia (MY)	Trinidad and Tobago (TT)
Cyprus (CY)	Malta (MT)	Turkey (TR)
Czech Republic (CZ)	Marshall Islands (MH)	Turkmenistan (TM)
Dominica (DM)	Mauritius (MU)	Ukraine (UA)
Dominican Republic (DO)	Mexico (MX)	United Arab Emirates (AE)
Egypt (EG)	Moldova (MD)	Uruguay (UY)
Equatorial Guinea (GQ)	Mongolia (MN)	Uzbekistan (UZ)
Estonia (EE)	Montserrat (MS)	Venezuela (VE)
Ethiopia (ET)	Morocco (MA)	Vietnam (VN)
Fiji (FJ)	Mozambique (MZ)	Yemen (YE)
French Polynesia (PF)	Namibia (NA)	Yugoslavia (YU)
Gambia (GM)	Netherlands Antilles (AN)	Zambia (ZM)
Georgia (GE)	New Zealand (NZ)	Zimbabwe (ZW)

### 4.3.2 Summary of answers obtained to phase 2 questionnaire

The summary of the responses to the questionnaire have been divided in to three tables. Table 5 relates to the Regulators and Administrations; table 6 to the National Standards Organizations and table 7 to the Network Operators.

The following notes should be read in conjunction with the aforementioned tables.

#### NOTES:

- CZ1. ATAAB AN 018; ATAAB AN 019; ATAAB AN 020; Czech AN CZ 01R00.
- CZ2. Used for declaration purposes (other standards can be used too).
- CZ3. Used for declaration purposes.
- CZ4. Additional requirements contained within technical testing instruction TZP 4.
- CZ5. Used in national approval of cs.
- CZ6. Used in national approval of TEs; other standards can be used as follows:
  - a) TBR 021 + AN (= national version of ANs); ES 201 187 [9].
  - b) ČSN EN 300 001; TZP 020.
  - c) FMS ref. no. 6123/92.
- CZ7. Used in national approval of TEs; other standards can be used as follows:
  - a) CSN EN 301 437 + AN (= national version of ANs); ES 201 187 [9]; TBR 038 [47].
  - b) CSN EN 300 001; ES 200 677 [10]; TZP 017.
  - c) FMS ref. no. 6123/92.
- EE1. TBR has the status of national standard.
- EE2. TBR and amendment have the status of national standard.
- EE3. Direct reference to standard ETS 300 418 [12] in regulation.
- EE4. Direct reference to standard ETS 300 288 [13] in regulation.
- EE5. Direct reference to standard ETS 300 686 [14] in regulation.
- HU1. TBRs referenced in entirety and transposed in to national standards for regulatory purposes. Declarations of Conformity must be made against National Standard.
- IS1. Do not make reference to or use of TBRs.
- LT1. Non-radio TBRs were not included in Lithuanian legislation at the appropriate time. R&TTE Directive 1999/5/EC [6] is planned to be implemented during 2002.
- MT1. Before 1998, Maltacom was both the regulator and telephone service provider in Malta. Although no legislation made reference to TBRs, Maltacom makes use of TBR 021 [42] as a basis for regulating the importation of telecommunication equipment. However, with the transposition of the R&TTE Directive 1999/5/EC [6] into Maltese law (due by the end of 2001) such equipment will have to comply with the relative harmonized standards.
- PL1. TBR (and associated test report) used for supporting the analysis of conformity assessments only.
- PL2. Implementation of TBR with Polish advisory note in progress.
- PL3. TBRs are not documents for standardization under the Polish standardization law, which does not consider them as standards. IL would like to suggest that ETSI changes the name of these documents and prepare *EN* instead of *TBR*.
- RO1. Will be implemented in year 2001 plus some additional requirements based on national specifications (e.g. REN- Ringer Equivalence Number).
- RO2. Only generally applicable/relevant TAAB Advisory Notes.
- SI1. X.21, X.25 and other Data Terminals.

- SI2. ISDN equipment.
- SI3. Leased lines.
- SK1. Additional requirements of ETS 300 247 [15] and ETS 300 418 [12] beyond those of the TBR.
- SK2. Additional requirements of ETS 300 418 [12], ETS 300 419 [16] and ETS 300 766 [17] beyond those of the TBR.
- SK3. Additional requirements of ETS 300 288 [13] and ETS 300 289 [18] beyond those of the TBR.
- SK4. Additional requirements of ETS 300 448 [19] and ETS 300 449 [20] beyond those of the TBR.
- SK5. Additional requirements of ETS 300 451 [21] and ETS 300 452 [22] beyond those of the TBR.
- SK6. To add to national specifications (TPT-T 5-1 and TPT-T 2-3) or create a new draft as a compromise for Europe.
- SK7. Additional requirements of ETS 300 686 [14] and ETS 300 687 [23] beyond those of the TBR.
- SK8. Additional requirements of ETS 300 686 [14] and ETS 300 688 [24] beyond those of the TBR.
- SK9. TBRs 1, 2, 3, 4, 8, 12, 13, 14, 15, 17, 24, 25, 33, 34, 38 have been translated and implemented in the set of Slovak Technical Standards.
- ZM1. TBRs are not quoted in national legislation, however, laboratory test reports and certificates against TBRs are accepted as proof of compliance for national type approval purposes.

Table 5: Responses received from Regulators and Administrations

TBR	CZ	EE	HU (see note HU1)	LT (see note LT1)	MT	PL	RO	SI	SK	ZM (see note ZM1)
1	DR	-	IR (MSZ 25001:1998)	NPI	-	(see note PL1)	DR	DR (see note SI1)	DR + NET1 Rx	IR
2	DR	-	IR (MSZ 25002:2000)	NPI	-	(see note PL1)	DR	-	DR + NET2 Rx	IR
3	R = A1 DR	-	R = A1 IR (MSZ 25003:1999)	NPI	-	(see note PL1)	A = A1 DR	DR (see note SI2)	DR	IR
4	R = A1 DR	-	R = A1 IR (MSZ 25004:2000)	NPI	-	(see note PL1)	A = A1 DR	DR (see note SI2)	DR	IR
8	DR	-	IR (MSZ 25008:1998)	NPI	-	NPI	DR	DR (see note SI2)	DR	IR
12	R = A1 DR	R = A1 (see notes EE2 + 3)	R = A1 IR (MSZ 25012:1998)	NPI	-	(see note PL1)	A = A1 DR	R = A1 (see note SI3)	DR (see note SK1)	IR
13	DR	(see notes EE1 + 3)	IR (MSZ 25013:1998)	NPI	-	(see note PL1)	DR	DR (see note SI3)	DR (see note SK2)	IR
14	R = A1 DR	R = A1 (see notes EE2 + 4)	R = A1 IR (MSZ 25014:1998)	NPI	-	NPI	A = A1 DR	R = A1 (see note SI3)	DR (see note SK3)	IR
15	DR	(see note EE1)	IR (MSZ 25015:1999)	NPI	-	NPI	DR	DR (see note SI3)	DR (see note SK4)	IR
17	DR	(see note EE1)	IR (MSZ 25017:1999)	NPI	-	NPI	DR	DR (see note SI3)	DR (see note SK5)	IR
21	DR	-	IR (MSZ 25021:1999)	NPI	-	(see note PL2)	(see note RO1)	-	(see note SK6)	IR
24	DR	(see note EE5)	IR (MSZ 25024:1999)	NPI	-	NPI	DR	DR (see note SI3)	DR (see note SK7)	IR
25	DR	(see note EE5)	IR (MSZ 25025:1999)	NPI	-	NPI	DR	DR (see note SI3)	DR (see note SK8)	IR
33	DR	-	IR (MSZ 25033:1999)	NPI	-	NPI	DR	-	NPI	IR
34	DR	-	IR (MSZ 25034:1999)	NPI	-	NPI	DR	-	NPI	IR
38	DR	-	IR (MSZ 25038:1999)	NPI	-	(see note PL2)	DR	-	(see note SK6)	IR



TBR	CZ	EE	HU (see note HU1)	LT (see note LT1)	MT	PL	RO	SI	SK	ZM (see note ZM1)
EN 301 401 [7]	IR (CSN EN 301 401 [7])	-	IR (MSZ EN 301 401:2000 [7])	NPI	-	NPI	2002	-	NPI	IR
EN 301 437 [8]	IR (CSN EN 301 437 [8])	-	IR (MSZ EN 301 437:2000 [8])	NPI	-	(see note PL2)	2002	-	(see note SK6)	IR
TAAB ANs	(see note CZ1)	-	-	-	-		(see note R02)	-	ISDN only	-
Key: "R = x" Require the use of a certain amendment "A = x" Permit use of an amendment "N = x" Do not recognize an amendment DR Direct Reference within legislation IR Indirect Reference within legislation NPI No Planned Implementation yyyy Planned Implementation Date										

Table 6: Responses received from National Standards Organizations

TBR	CZ	EE	HU	LT	MT	PL (see note PL3)	RO	SI	SK (see note SK9)	ZM
1	-	-	-	-	NPI	(see note PL1)	DR	-	DR	NPI
2	-	-	-	-	NPI	(see note PL1)	DR	-	DR	NPI
3	-	-	-	-	NPI	(see note PL1)	DR	-	DR	NPI
4	-	-	-	-	NPI	(see note PL1)	DR	-	DR	NPI
8	-	-	-	-	NPI	NPI	DR	-	DR	NPI
12	-	-	-	-	NPI	(see note PL1)	DR	-	DR	NPI
13	-	-	-	-	NPI	(see note PL1)	DR	-	DR	NPI
14	-	-	-	-	NPI	NPI	DR	-	DR	NPI
15	-	-	-	-	NPI	NPI	DR	-	DR	NPI
17	-	-	-	-	NPI	NPI	DR	-	DR	NPI
21	-	-	-	-	(see note MT1)	(see note PL2)	N =? DR	-	DR	NPI
24	-	-	-	-	NPI	NPI	DR	-	DR	NPI
25	-	-	-	-	NPI	NPI	DR	-	DR	NPI
33	-	-	-	-	NPI	NPI	DR	-	DR	NPI
34	-	-	-	-	NPI	NPI	N =? DR	-	DR	NPI
38	-	-	-	-	NPI	(see note PL2)	DR	-	DR	NPI
EN 301 401 [7]	-	-	-	-	NPI	NPI		-	DR	NPI
EN 301 437	-	-	-	-	NPI	(see note PL2)		-	DR	NPI
TAAB ANs	-	-	-	-	NPI	-		-	-	NPI
Key:										
"R = x" Require the use of a certain amendment										
"A = x" Permit use of an amendment										
"N = x" Do not recognize an amendment										
DR Direct Reference within legislation										
IR Indirect Reference within legislation										
NPI No Planned Implementation										
yyyy Planned Implementation Date										

Table 7: Responses received from Network Operators

TBR	CZ	EE	HU	IS	LT	MT	PL	RO	SI	SK	ZM
1	(see note CZ2)	-	-	(see note IS1)	-	-	-	-	-	-	-
2	(see note CZ2)	-	-	(see note IS1)	-	-	-	-	-	-	-
3	(see note CZ3 + 4)	-	-	(see note IS1)	-	-	-	-	-	-	-
4	(see note CZ3 + 4)	-	-	(see note IS1)	-	-	-	-	-	-	-
8	(see note CZ3 + 4)	-	-	(see note IS1)	-	-	-	-	-	-	-
12	(see note CZ2)	-	-	(see note IS1)	-	-	-	-	-	-	-
13	(see note CZ2)	-	-	(see note IS1)	-	-	-	-	-	-	-
14	(see note CZ2)	-	-	(see note IS1)	-	-	-	-	-	-	-
15	(see note CZ5)	-	-	(see note IS1)	-	-	-	-	-	-	-
17	(see note CZ5)	-	-	(see note IS1)	-	-	-	-	-	-	-
21	(see note CZ6)	-	-	(see note IS1)	-	-	-	-	-	-	-
24	(see note CZ2)	-	-	(see note IS1)	-	-	-	-	-	-	-
25	(see note CZ2)	-	-	(see note IS1)	-	-	-	-	-	-	-
33	(see note CZ3 + 4)	-	-	(see note IS1)	-	-	-	-	-	-	-
34	(see note CZ3 + 4)	-	-	(see note IS1)	-	-	-	-	-	-	-
38	(see note CZ5)	-	-	(see note IS1)	-	-	-	-	-	-	-
EN 301 401 [7]	(see note CZ2)	-	-	(see note IS1)	-	-	-	-	-	-	-
EN 301 437 [8]	(see note CZ7)	-	-	(see note IS1)	-	-	-	-	-	-	-
TAAB ANs	-	-	-	-	-	-	-	-	-	-	-
Key:											
	"R = x"	Require the use of a certain amendment									
	"A = x"	Permit use of an amendment									
	"N = x"	Do not recognize an amendment									
	DR	Direct Reference within legislation									
	IR	Indirect Reference within legislation									
	NPI	No Planned Implementation									
	yyyy	Planned Implementation Date									

## 4.4 Conclusions of research

Despite the relatively low response to the questionnaire, in general those countries that are moving towards implementing R&TTE Directive 1999/5/EC [6] did not see any value in maintaining the TBRs as TBRs. However, there was support for maintaining and further developing the technical content of the non-radio TBRs in the form of an ETSI deliverable.

The status and terminology associated with the title 'TBR' has been interpreted differently outside of the EEA. The change of deliverable type is supported in part by the situation in Poland. Where due to the legal status of standards, TBRs were not considered standards, the Polish NSO would therefore like to suggest that ETSI changes the name of these documents and prepare *ENs* instead of *TBRs*.

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# 5 Review of the background and current status of non-radio TBRs and related documents

## 5.1 Status of non-radio TBRs

TBRs were produced by ETSI under a EU commission mandate to support the TTE directive (initially under EU Directive 91/263/EEC [4] which was repealed by EU Directive 98/13/EEC [5]). Most were cited as harmonized standards under one of these directives.

The technical content of the TBRs was dictated by a combination of interface/purpose specific factors and which of the essential requirements as specified in Article 5 of the TTE were appropriate to that interface/purpose.

TBRs remain ETSI documents but non-radio TBRs have lost their regulatory significance in the EEA under the new R&TTE directive and only have status as harmonized standards in the EEA under the TTE to R&TTE transition rules until 7<sup>th</sup> April 2001.

However many administrations outside the EEA have adopted appropriate TBRs into their own regulation where they continue to have regulatory significance. Furthermore TBRs are used on a voluntary basis for design, procurement, and certification purposes both within and outside the EEA

For the TBRs and related documents listed in clauses A.1 and A.2, ETSI Technical Committee AT holds the responsibility to maintain them.

## 5.2 Status of CTRs

CTRs are European Commission or council decisions under the TTE Directive that bring TBRs or ENs into legal force. CTRs have now ceased to have effect and any status since 7<sup>th</sup> April 2001.

CTRs 1, 2, 8, 13, 15, 17, 21, 24, 25, 33, 34, and 38 invoke the TBRs directly and do not differ in scope of application to the TBRs.

CTRs 3, 4, 12 and 14 invoke the TBRs with their amendments. Again they do not vary the scope application.

I-CTR 37 invoked TBR 021 [42] but amended the scope of application to Voice terminals and varied some compliance criteria. ATAAB note AN 14 replicates the technical aspects. Furthermore EN 301 437 [8], which was derived from TBR 021 [42], contains all the variations applied in I-CTR 37.

EN 301 401 [7] and EN 301 437 [8] were never invoked by CTRs.

Thus no technical information will be lost now that CTRs have ceased.

## 5.3 Status of ATAAB and ITAAB Notes

TRAC was formed under the TTE to advise the EU commission on regulatory matters relating to terminal equipment subject to that directive.

TRAC recognized that standards documents on occasion need amendment and correction but were eager that the introduction of terminals, especially those of innovative design should not be delayed by the standards making process. The TAABs were formed to consider corrections, and clarifications to the TBRs with the intent of providing a fast track approach to such issues.

The appropriate TAAB reviewed the technical merits of each issue presented to it and where appropriate issued guidance in the form of a TAAB advisory note.

Advisory notes accepted by the TAAB were then sent to TRAC for approval. Those approved by TRAC became in effect (but not law) addendum to the appropriate TBR(s) available (but not mandatory) for use for regulatory purposes.

TRAC placed approved TAAB notes on its own website.

ATAAB was assigned responsibility if the TBRs related to Analogue presented interfaces, while ITAAB had a similar responsibility for digitally presented interfaces.

When TRAC approved an ATAAB note they additionally forwarded the text for publication in ETSI EG 201 121 [3]. No ETSI deliverable was used to publish ITAAB notes.

The TAAB advisory notes will cease to have regulatory significance in the EEA after 7<sup>th</sup> April 2001 at the end of the TTE to R&TTE transition period. TRAC will itself cease activity on that date.

NOTE 1: The TRAC advisory notes have been archived by the ETSI Secretariat and can be found at:

[http://portal.etsi.org/at/TRAC/TRAC\\_Advisory\\_Notes.asp](http://portal.etsi.org/at/TRAC/TRAC_Advisory_Notes.asp)

ETSI TC AT had the mandate to maintain and approve both the A and I -TAAB notes. The process agreed as part of this study is that an advisory note index will be maintained within a TR for Analogue and ISDN:

- 1) ETSI TR 103 000-1: "Analogue Access to Public Telephone Network; Advisory Notes to standards harmonizing terminal interface; Part 01: List of all Advisory Notes" [1].
- 2) ETSI TR 103 050: "Access and Terminals (AT); Applicability of ITAAB Application Notes to TBRs". [2]

Furthermore new Advisory Notes will be published as TS, except where the content is non-technical.

NOTE 2: TR 103 000-1 [1] collates all of the Analogue Advisory Notes including those covered by EG 201 121 [3].

## 5.4 Status of EN 301 401 and EN 301 437

Both these documents were produced under the same mandate as for the TBRs, and only contain requirements consistent with the TTE essential requirements. Neither of these is however cited in an appropriate CTR.

EN 301 401 [7] was intended as a replacement for TBR 001 [26] and TBR 002 [27].

EN 301 437 [8] in effect applies TBR 021 [42] with the relaxations defined in I-CTR 37.

Both are available for update via the normal ETSI processes for ENs.

## 5.5 Status of other related documents

A number of documents currently under the editorial control of other bodies make significant reference to the non-Radio TBRs.

In TBR 010 [48] Edition 3, reference is made to requirements in TBR 038 [47] where TBR 008 [33] is also referenced with respect to some test methods. Consequently the future and currency of the referenced TBRs will have an impact on TBR 010 [48]. Edition 2 of TBR 010 [48] is the last edition to be referenced in a CTR.

While TBR 010 [48] does not invoke any requirements from TBR 008 [33] for TE with an ISDN interface DTAAB Advisory Note 007 advises that DECT Base stations with ISDN interfaces are compliant with certain clauses of TBR 008 [33]. Currently DTAAB notes have the same status as all TRAC approved notes.

The scope of TBR 040 [49] makes reference to TBR 003 [28] and TBR 004 [30] in such a manner that TBR 040 [49] only applies where one of these apply. Consequently it relies upon the continued presence and accuracy of these TBRs for the continued use of TBR 040 [49]. ETSI EP DECT currently holds the editorial responsibility for both TBR 010 [48] and TBR 040 [49].

EN 301 440 [11] which was intended as a replacement for TBR 040 [49] makes the same references to TBR 003 [28] and TBR 004 [30]. ETSI EP DECT currently holds the editorial responsibility for the present document and may follow the update procedures for ENs.

Neither TBR 040 [49] nor EN 301 440 [11] has been used extensively due to their specialist nature and non-mandatory references in CTR 40.

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## 6 Discussion of options for the future

### 6.1 Overview of available deliverables

The following ETSI deliverable types are relevant to the present document:

- EN European Standard voted by NSOs (may also have public enquiry);
- ES ETSI Standard voted by all ETSI members;
- EG ETSI Guide voted by all ETSI members;
- TS Technical Specification approved by Technical body;
- TR Technical Report approved by Technical body;
- TBR Technical Basis for Regulation voted by NSOs (may also have public enquiry).

NOTE: All the above must be approved by the Technical Body.

The various approval procedures have predefined voting timeframes (see ETSI technical working procedures). The selection of deliverable type will have a direct impact on the time taken between the determination of a problem and the publication of the deliverable.

## 6.2 TBRs, EN 301 401, and EN 301 437

### 6.2.1 General

AT has responsibility for a number of TBRs (refer Annex A). Additionally AT holds responsibility for EN 301 401 [7] and EN 301 437 [8].

While these document remain in use AT has the responsibility for appropriate maintenance of the contents.

The ETSI technical working procedures allow for TBRs to be maintained by amendment, or subsequent edition as appropriate.

Alternatively the technical content of existing TBRs may be reproduced in the EN 301 4xx series of documents as has already occurred for TBR 001 [26] and TBR 002 [27] with EN 301 401 [7].

Other alternatives are conversion to ES or TS deliverable types.

### 6.2.2 Cease maintenance of the TBRs

At the first meeting of TC AT the general future of TBRs were discussed.

The option to withdraw TBRs completely after 7<sup>th</sup> April 2001 was rejected as it was considered TBRs would have ongoing use after that date. The present document is intended in part to verify this view.

The option of declaring TBRs obsolescent was rejected for several reasons. These included the fact that obsolescent documents may not have any maintenance applied to them. Additionally it was viewed that declaring them obsolescent while not offering clear replacements could encourage a diversity of standards to be selected by current users to replace single widely respected TBRs. The present document is intended to review the options for maintaining the technical contents of TBRs.

### 6.2.3 Retaining TBR identity

The TBR document identity is widely recognized in a global context, both within and outside the EEA.

In consideration of the regulatory history of TBRs and their current status within EEA countries, the working practices of some NSOs may not permit them to consider, or approve revisions of TBRs.

The original purpose of the TBRs was to fulfil a regulatory mandate from the European commission. Future editions of the TBRs will need to revise the scope statements while retaining the historical context.

### 6.2.4 Conversion from TBR yy to EN 301 4yy

The status of ENs is not self evident with some having regulatory significance and others not.

The EN 301 4xx series were reserved by the ETSI secretariat for conversion of TBRs.

The original purpose of the TBRs was to fulfil a regulatory mandate from the European commission. On conversion to an EN 301 4xx document the historical context of the TBR would need to be explained.

The timeframe for approval and publication is the same as for TBRs.

### 6.2.5 Conversion to other EN numbered deliverables

The issues are the same as for the EN 301 4xx numbering range except that there will be no implicit linkage with previous EU regulatory regimes.

## 6.2.6 Conversion to ES deliverable

There is no implicit linkage with the previous EU regulatory regime.

The ES 203 0xx series is reserved by the ETSI secretariat for conversion of TBRs.

The ES option will enable non-EU members with interests in the revision of the contents to formally express their opinions within the approval process.

The timeframe for approval and publication is shorter than for TBRs or ENs.

## 6.2.7 Conversion to TS deliverable

There is no implicit linkage with the previous EU regulatory regime.

The TS 103 0xx series is reserved by the ETSI secretariat for conversion of TBRs.

The TS option only requires formal agreement from within the responsible Technical body.

This is the quickest option, but may not have wide enough acceptance/approval to satisfy all users.

## 6.3 Current advisory notes

### 6.3.1 General

The advisory notes were published by TRAC.

AT have the responsibility for maintaining the technical content and proposing solutions.

The role of TRAC ceased after 7<sup>th</sup> April 2001 at the end of the transition arrangements for the R&TTE.

The continued availability of ATAAB and ITAAB notes is important to the correct application of the TBRs. The current plan is to make all Advisory Notes available via the TC AT document download area of the ETSI web site:

[http://portal.etsi.org/at/TRAC/TRAC\\_Advisory\\_Notes.asp](http://portal.etsi.org/at/TRAC/TRAC_Advisory_Notes.asp)

### 6.3.2 ATAAB notes

EG 201 121 [3] contains ATAAB Notes and unendorsed advisory notes.

Until 7<sup>th</sup> April 2001 any TRAC endorsed note may be additionally included within a revision of EG 201 121 [3].

After 7<sup>th</sup> April 2001 revisions of existing ATAAB notes will need to follow the relevant ETSI procedure.

The decision reached during the TC AT#3 meeting was not to revise and up-issue EG 201 121 [3] when issuing new Advisory Notes. The procedure adopted for new Advisory notes, is that these will be issued as Technical Reports (TR) or Technical Specifications (TS).

Refer to clause 5.3 of the present document that provides the current status.



### 6.3.3 ITAAB notes

ITAAB Notes were published individually by TRAC, with an index document IT.01 detailing their application.

Some ITAAB notes have been published on the ETSI CD Rom but the currency of them has yet to be established.

After 7<sup>th</sup> April 2001 there is a need for the ongoing availability of accepted ITAAB notes within the ETSI framework.

After 7<sup>th</sup> April 2001 existing ITAAB notes and future revisions of them will need to follow the relevant ETSI procedure as agreed for new ITAAB notes.

The procedure adopted for new Advisory notes, is that these will be issued as Technical Reports (TR) or Technical Specifications (TS).

## 6.4 Future advisory notes

### 6.4.1 General

From 7<sup>th</sup> April 2001 there is an ongoing requirement for a fast track solution to problems encountered in the application of TBRs. The agreement reached on handling future advisory notes is given in clause 5.3.

### 6.4.2 Analogue advisory notes

There are 3 options to progress new and revised advisory notes.

One option would be to agree notes in AT-A and add them as revisions to EG 201 121 [3]. However since the EG deliverable requires ETSI member vote this would add significant delay between AT agreement and publication.

Another option would be to continue with a consolidated document but change EG 201 121 [3] to a TR deliverable. This would allow the benefit of continuity with the previous regime while enabling the fast track approach.

The final option would be to follow the practice adopted for ITAAB to publish each note separately with an index document. This would have the benefit of consistency and simplify revision of individual notes.

### 6.4.3 Digital advisory notes

For ease of reference the ITAAB index document IT.01 will need to be republished as an ETSI deliverable. Given the fast track requirement and the nature of the information the most suitable is a TR deliverable.

To retain the fast track objective new and revised ITAAB notes would have to be either TR or TS deliverables. While for some ITAAB notes a TR deliverable may be appropriate for consistency with other notes including modified requirements all new ITAAB notes should be published as the same deliverable.

Alternatively they could be published as ES deliverables, but would encounter a significant delay in the publication process.

## 6.5 Other related documents

The recommendations of the present document might be considered for future maintenance of TBR 010 [48], TBR 040 [49] and EN 301 440 [11] that are under the responsibility of ETSI Project DECT.

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## 7 Recommendations

### 7.1 General

Where it is necessary to substantially update the technical content of non-Radio TBRs, it is recommended that the technical content of the TBR be transposed into an ETSI Standard (ES). The consideration of recommending the deliverable as an ES and not an EN is based upon ETSI directives and to receive the widest approval for publication from the ETSI membership, not just by European NSOs.

The status of any work in this area should be maintained on the ETSI web server.

NOTE: The TBR homepage can be found at: [http://portal.etsi.org/at/tbr\\_new.asp](http://portal.etsi.org/at/tbr_new.asp)

### 7.2 Handling existing TBRs

The Technical Body experts will need to identify whether urgent and specific technical updates would be best provided in a TR or TS supplementing the TBR, or handled as part of the transposition of the technical content into an ES.

### 7.3 Handling of advisory notes

#### 7.3.1 Analogue advisory notes

As per the agreement reached at TC AT #3 please refer to clause 5.3, which confirms the procedure adopted for new advisory notes.

A single index document tracking all analogue advisory notes will be maintained as ETSI TR 103 000-1 [1] with a copy available directly from the Technical Activities public area of the ETSI web site.

#### 7.3.2 Digital advisory notes

As per the agreement reached at TC AT #3 please refer to clause 5.3, which confirms the procedure adopted for new Advisory notes.

A single index document tracking all digital advisory notes will be maintained as TR 103 050 [2], with a copy available directly from the Technical Activities public area of the ETSI web site.

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## Annex A: Initial list of non-radio TBRs and similar documents

### A.1 TBRs

The present list was extracted from ETSI home page.

TBR 001 [26];

TBR 002 [27];

TBR 003 [28];

TBR 003/A1 [29];

TBR 004 [30];

TBR 004/A1 [31];

TBR 008 [33].

TBR 008/C1 [34];

TBR 012 [35];

TBR 012/A1 [36];

TBR 013 [37];

TBR 014 [38];

TBR 014/A1 [39];

TBR 015 [40];

TBR 017 [41];

TBR 021 [42];

TBR 024 [43];

TBR 025 [44];

TBR 033 [45];

TBR 034 [46];

TBR 038 [47].

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## A.2 Similar documents

At the present the deliverables listed below were identified. The list was extracted from ETSI home page.

EN 301 401 Version 1.2.6 [7];

EN 301 437 Version 1.1.1 [8].

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## A.3 TAAB application notes

ANs to TBRs are considered associated complementary documents, not similar to TBRs.

Depending on the area, ANs followed a different way of publication within ETSI.

A list of the ATAAB adopted notes is listed in EG 201 121 [3].

A list of the ITAAB adopted notes is listed in IT.01.

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## Annex B: Copy of final phase 1 questionnaire

### B.1 Introduction

The following pages contain a copy of the introductory letter and a copy of the phase 1 questionnaire.

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European Telecommunications Standards Institute

**ETSI AT#2**

16<sup>th</sup> - 20<sup>th</sup> October 2000

Hotel Mediatel - Sophia Antipolis, France

**Source: H.G. Carr (BABT)**

**Title: Survey on the current use of non-Radio TBRs**

**Date: 27 October 2000**

To:Members of TC AT  
Members of ATAAB  
Members of ITAAB  
Members of TRAC

cc: All ETSI Technical Bodies Chairmen

ETSI TC AT are conducting a study of the global usage and acceptance of non-radio TBRs and associated documents. This study is being conducted in the light of recent changes in EU legislation and in consideration of the widespread increasing use of many TBRs outside the EU, including regulatory and non-regulatory aspects and impact by and on other technologies (e.g. ADSL over POTS or ISDN) or IP applications on Terminals).

In Europe the full basic harmonization of terminal interfaces to be connected to the Public Telephone Network was achieved with great success by ETSI under the "TBR-" or "TTE-regime" (EU Directives 91/263 and 98/13). The consequence is that an increasing number of National Authorities and world-wide organizations are using these basic standards. In ETSI also this is having a positive impact enabling enhanced standardization work in other areas, like network interfaces and supplementary services.

The recent change of regulatory regime in Europe determined a significant modification in the legal status and therefore in the formal dimension of TBRs. The value of the contents of TBRs on the other hand keeps significantly increasing both in the geographical dimension and in the areas directly and indirectly effected.

The evaluation of the geographical impact is important for ETSI to evaluate the world-wide consequences of any possible future action in the area.

The awareness for the implications e.g. in the areas of new interface technologies or in the areas of new services will determine the future work in the area because it will be of central importance for ETSI members to follow and influence the future of the Telecom sector in the world.

As a part of this study TC AT are conducting a survey of the known uses of non-Radio TBRs and the acceptance of test results obtained showing compliance to the TBRs. The list of TBRs for which we have primary interest is as follows: TBRs 1, 2, 3, 4, 8, 12, 13, 14, 15, 17, 21, 24, 25, 33, 34, and 38. We are also interested in the uses of I-CTR 37, EN 301 401, EN 301 437, and ATAAB and ITAAB notes.

The survey will benefit from the widest and most accurate returns readily available.

Please complete the enclosed table for each TBR/CTR for which you have any information.

An example of a completed table is provided for guidance.

Please return the completed tables **by 27<sup>th</sup> November 2000** to

**Hilton Carr at BABT.**

The preferred method of return is as word files emailed to Hilton.Carr@BABT.com

If this is not convenient then the information may be

- sent in PDF format to the same address; or
- sent by Fax to +44 1932 251252; or
- sent to Ted Laverack (Ted.Laverack@ETSI.FR) at the ETSI Secretariat; or
- sent by mail to

BABT  
Claremont House  
34 Molesey Road  
Walton on Thames  
Surrey  
KT12 4RQ  
United Kingdom

## B.2 Key to TBR usage survey entries, initial information from ETSI members

Please complete the tables as follows:

### **TBR No:**

Please complete a separate table for each TBR for which you have information:

state the TBR number;

where the TBR has been amended the response should be made including all relevant amendments;

if an organization does not accept the latest amendment then please note this in the comments field for the appropriate organization.

### **Admin/Organ:**

Please complete an entry line for each administration (country) which makes any use (regulatory or not) of the names CTR/TBR.

Additionally please complete an entry line for each "significant" Public Network Operator(PNO) or distribution channels who require compliance to parts or all of the CTR or TBR as a part of their procurement requirement. "Significant" in this case should be interpreted as meaning a single (or set of) organization(s) who have influence in 25 % or more of a market. (e.g. Where dominant Telco or a set of competing Distribution outlets who all require a given standard).

NOTE: In the remainder of this key "Organization" is used to denote this entry

**Type:**

Please indicate the type of organization:

use "A" for an administration or Regulator;

use "PTO" for PTOs, TELCOs and other telecoms service organizations;

use "Sale" for organizations which use CTRs/TBRs for procurement.

**Date of Info:**

Please briefly indicate the date this information was last checked or used:

use either the **Month and Year**;

or "Q1 2000" etc for the quarter of the year followed by the year.

**No of users:**

for each TBR and each administration or relevant organization please inform how many users could be interested for the relevant products. If more than one terminal per network termination is common an evaluation of the total park of terminals (number of existing terminals) and/or the yearly consumption would be interesting;

note that these numbers can normally only be approximate.

**Direct Reference:**

Please complete this box if the named organization directly references the TBR or CTR. Use "C" where the CTR is referenced;

use "T" where the TBR is referenced; and

use "P" where the TBR is partially referenced (e.g. Layers 2 and 3 of ISDN).

**Indirect Reference:**

Please complete this where the named organization invokes a national or regional standard which itself invokes part or all of the TBR. (e.g. Some countries have national standards which directly invoke the TBRs):

use "C", "T" and "P" as above.

**Additional Requirements:**

Where the organization applies additional requirements please indicate the standard or source of these requirements.

**TAAB Notes:**

Where known please state one (or more) of the following:

use "R = xx,..." listing the number of the notes where the organization requires the use of particular notes;

use "A" where the organization permits but does not require the use TAAB notes;

use "N" where the organization prohibits the use of TAAB notes.

NOTE: A combination of the above may be used as appropriate, e.g. R = xx" and "N = yy" could be used for an organization which requires some notes and prohibits others.

**Test Reports:**

If known please state which of the following is relevant:

use "ALL" where the organization accepts test reports from any accredited sources;

use "EU" where the organization accepts test reports from EU formally recognized sources (e.g. Former Designated Labs);

use "Rec" where the testing must take place only at test labs recognized by the organization (whether in country or outside);

use "Own" where the testing may only take place in labs within the country of the organization.

**Certificates:**

If known please state which of the following is accepted by the organization:

use "TTE" where TTE Approval Certificates are accepted;

use "TEC" where TTE Type Examination Certificates are accepted;

use "DoC" where Declarations of Conformity are accepted;

use "Cert" where Certificates from Test Labs or Certification bodies are accepted.

**Comments:**

Any qualifying information that may be added to assist in progressing the info.



## B.3 Example of completed CTR and TBR usage survey

From:

Page 2

The following table is an example using a fictitious TBR and fictitious organizations to demonstrate how the table may be completed.

<b>TBR No 069</b>										
<b>Admin/Organ</b>	<b>Type</b>	<b>Date of Info</b>	<b>No of users</b>	<b>Direct Ref.</b>	<b>Indirect Ref.</b>	<b>Additional Requires</b>	<b>TAAB Notes</b>	<b>Test Reports</b>	<b>Certs</b>	<b>Comments</b>
<b>Keys</b>	<b>A, PTO or SALE</b>	<b>MM/YY or Qx/YY</b>		<b>C, T, or P</b>	<b>C, T, or P</b>	<b>Standard Reference</b>	<b>R = xx, N = xx, A or N</b>	<b>EU, Rec. or Own</b>	<b>TTE, TEC Doc, or Cert</b>	
Sans Serif Government	A	Q1/00	-	-	-T	SS15 1998	A	Own	-	
Isle of Wight Ministry of Communication	A	Q3/99	-	T	-	-	R = 8, 13, A	All	Cert	
Shoes Distributors Ltd	SALE	10/00	-	C	-		A	All	TEC or Cert	

In this example Sans Serif is a regulator, which specifies their own standard SS15 in their approval requirements. However the Standard then invokes TBR 069. Only test reports from their in country labs are accepted. They allow any TAAB notes to be used.

The Isle of Wight Ministry is a Government administration. TBR 069 is invoked in their legislation. However they accept test reports from any accredited source. They accept all TAAB notes but require the use of notes 8 and 13. Test House Certificates are accepted as alternatives to full test reports

Finally Shoes Distributors Ltd refer to compliance to CTR 69 in their procurement requirements. TECS or Test House Certificates are accepted as alternatives to full test reports. They do not care about TAAB Notes.

## B.4 CTR and TBR usage survey

CTR and TBR usage survey

TBR No	Admin/Organ	Type	Date of Info	No of users	Direct Ref.	Indirect Ref.	Additional Requires	TAAB Notes	Test Reports	Certs	Comments
Keys		A, PTO or SALE	MM/YY or Qx/YY		C, T, or P	C, T, or P	Standard Reference	R = xx, N = xx, A or N	EU, Rec. or Own	TTE, TEC Doc, or Cert	

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# Annex C:

## Copy of final phase 2 questionnaire

### C.1 Introduction

The following pages contain a copy of the introductory letter and a copy of the phase 2 questionnaire.

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17 May 2001

<AddresseeName>  
<OrgName>  
<Address>  
<Region>  
<PostalCode>  
<Country>

Dear <Salutation>,

ETSI TC AT<sup>1</sup> is currently conducting a study of the global usage and acceptance of non-radio TBRs<sup>2</sup> and associated documents. This study is being conducted in the light of recent changes in EU legislation and in consideration of the widespread use of many TBRs outside the European Union for both regulatory and non-regulatory purposes. ETSI TC AT has been assigned responsibility for the maintenance of non-radio TBRs and also the associated TAAB<sup>3</sup> Advisory Notes.

I have been assigned the task of contacting you at this time to firstly inform you of the changes in Europe and also to solicit your feedback regarding the use of non-Radio TBRs and the acceptance of test results demonstrating compliance to the TBRs.

In Europe the full basic harmonization of terminal interfaces to be connected to the Public Telephone Network was achieved with great success by ETSI under the "TBR-" or "TTE-regime". The legislative framework (EU Directives 91/263 and 98/13) that endorsed the TBRs for regulatory purposes (CTRs<sup>4</sup>) in the European Union has now been superseded by R&TTE Directive 1999/5/EC, meaning that CTRs have been withdrawn. As a consequence it will be difficult to maintain the technical requirements contained within the TBRs.

In recognition of the valuable technical content of TBRs and their use by an increasing number of National Authorities and organizations worldwide, ETSI wishes to continue to support this harmonization work. These standards have had a positive impact within ETSI enabling enhanced standardization work in other areas, such as network interfaces and supplementary services.

It is of the utmost importance that ETSI evaluate the impact upon the users of these documents worldwide, to assess the consequences of any possible future action in this area. The awareness for the implications, for example in the areas of new interface technologies or new services will determine future work in this area and is therefore of paramount importance for ETSI members to follow and influence the future of the Telecom sector worldwide.

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<sup>1</sup> Technical Committee Access and Terminals

<sup>2</sup> TBR: Technical Basis for Regulation

<sup>3</sup> TAAB: Type Approval Advisory Board [ITAAB = ISDN, ATAAB = Analogue]

<sup>4</sup> CTR: Common Technical Regulation

The purpose of this study is to focus any future support of the TBRs in the directions required and identify the interested parties. The survey will benefit from the widest and most accurate feedback available. A copy of this questionnaire together with other relevant information is available from the Access and Terminals area of the ETSI website: [www.etsi.org/at/](http://www.etsi.org/at/) (follow the link to Global TBRs) Please also note that two index documents are to be maintained with respect to TAAB Advisory Notes and will be periodically available from the AT area of the ETSI website.

Please complete the enclosed table with respect to the usage your particular organization makes of TBRs.

Please return the completed tables to myself, Edward Fitzgerald at European Technology Services.

The preferred method of return is in a word document format, [mailto: Edward.Fitzgerald@ets-tele.com](mailto:Edward.Fitzgerald@ets-tele.com)

If this is not convenient then the information may be

- sent in PDF format to the same email address; or
- sent by Fax to +44 1202 311 549; or
- sent by post to

Attn: TBR Study Rapporteur  
European Technology Services  
Anglo-City House  
Lansdowne Road  
Bournemouth  
Dorset  
BH1 1RZ  
United Kingdom

I would like to take this opportunity to thank you for your assistance in this survey and look forward to receiving your feedback.

Yours faithfully,

Edward Fitzgerald

ETSI TBR Study Rapporteur

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## C.2 Guide to completing the ETSI TBR usage survey

Please complete the tables as follows, providing additional information where possible:

### **Organization Name:**

Please insert your organization name. Where this is a department of Government please state the Ministry under which you operate.

### **Organization Description:**

Please complete a brief description of your organization. Please state whether your organization decides your policy on TBRs or implements that of another organization (e.g. in some countries the Administration defines the policy while the regulator implements it).

**Date of Info:**

Please briefly indicate the date this information was last reviewed:

use either the **Month and Year** or "**Q1 2000**" etc for the quarter of the year followed by the year.

**TBR No:**

This is a list of the TBRs that are of interest to ETSI TC AT. It also includes EN 301 401 [7] and EN 301 437 [8] which were prepared as drafts for CTRs.

**Amendment:**

Some TBRs were amended through ETSI Amendments; Please indicate as follows if you accept an amendment:

use "**R = x**" where you require the use of a certain amendment;

use "**A = x**" where you permit use of an amendment;

use "**N = x**" where you do not recognize an amendment.

**Additional Requirements:**

Where the organization applies additional requirements please indicate the standard or source of these requirements.

**Comments:**

Any qualifying information that may be added to assist in progressing your information, for instance:

**Direct Reference:**

Please indicate if your organization directly references the TBR or where the TBR is partially referenced (e.g. Layers 2 and 3 of ISDN).

**Indirect Reference:**

Please indicate if your organization invokes a national or regional standard which itself invokes part or all of the TBR. (e.g. some countries have national standards which directly invoke the TBRs); Again please state whether the TBR is referenced in full or partially.

Other information that would be useful to understand is as follows:

**Test Reports:**

If known please confirm if your organization accepts test reports from EU formally recognized sources, where the testing must take place only at test laboratories recognized by your organization (whether in country or outside) or where testing may only take place within your country.

**Certificates:**

If known please state which of the following is accepted by your organization:

- 1) TTE Approval Certificates are accepted;
- 2) TTE Type Examination Certificates (TECs) are accepted;
- 3) Declarations of Conformity are accepted;
- 4) certificates from Test Laboratories or Certification Bodies are accepted.

## C.3 CTR and TBR usage survey

**Table C.1**

<b>Organization Name:</b>	
<b>Organization Description</b>	
<b>Date of Information</b>	

**Table C.2**

<b>No.</b>	<b>General Information</b>
1	Do you currently recognize any TBRs as being valid standards within your country/organization? Reply:
2	If yes to question 1, are these TBRs directly quoted in legislation (or other formal documentation)? Reply: Give all details where appropriate in the attached table 3.
3	If you do not currently accept TBRs, are there any plans to accept TBRs in the future?
4	Where you do not accept TBRs please briefly identify why they are not suitable.
5	Please confirm if you allow the application of the relevant TAAB Advisory Notes (please provide further details):
6	ETSI TC AT intend to maintain the content of existing TBRs and TAAB Advisory Notes to encourage global acceptance on a technical basis. Please state whether your organization would be willing to support this concept and whether you would be willing to assist with the maintenance of such standards.

Table C.3

TBR No	Amendment	Additional Requirements	Comments
	Numbers	Standard Reference	Please provide further details as per guidance notes.
TBR 001 [26]			
TBR 002 [27]			
TBR 003 [28]			
TBR 004 [30]			
TBR 008 [33]			
TBR 012 [35]			
TBR 013 [37]			
TBR 014 [38]			
TBR 015 [40]			
TBR 017 [41]			
TBR 021 [42]			
TBR 024 [43]			
TBR 025 [44]			
TBR 033 [45]			
TBR 034 [46]			
TBR 038 [47]			
EN 301 401 [7]			
EN 301 437 [8]			

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## History

<b>Document history</b>		
V1.1.1	April 2002	Publication